SKCET Buzz

14th December - 20th December 2024

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SKCET BUZZ

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Mr. R. Kavin	B.E Electrical and Electronics Engineering	Dr. R. Suyam Praba	Master of Business Administration (MBA)

STUDENT COORDINATORS

R.A. Kaniga	B.Tech Artificial Intelligence and Data Science, Third Year
V. Vasusundhan	B.Tech Artificial Intelligence and Data Science, Second Year, Section B
R. Raja Gopal	B.E Mechanical Engineering, Second Year, Section A

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HACKATHON ACCOLADES

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CSE | SMART INDIA HACKATHON 2024

Department of **Computer Science and Engineering** has achieved a remarkable milestone by emerging victorious in the prestigious **Smart India Hackathon 2024**. Showcasing their innovation and technical expertise, **three teams** from the department collaboratively secured the top spot, earning a cash prize of **₹1 lakh**, to be shared equally among the teams.

Team Name: HashTech

Team Members:

- Sujan D.S- III CSE C
- Sanjay S - III CSE C
- Sharvin Adith .V.K- II CSE D
- Sheema Saba M - II CSE D
- Yuvaraj.S - II CSE D
- Shshank Dabbas - II CSE D

Problem Statement ID: 1624
Title: To Develop an Artificial Intelligence based model for detect Electricity demand projection including peak demand projection for Delhi power system.
Ministry/Organization: Government of NCT of Delhi
Nodal Center: Noida Institute of Engineering & Technology, Greater Noida, Delhi.
Academic Mentor: Mrs.S.Abirami, Assistant Professor, CSE

CSE | SMART INDIA HACKATHON 2024

CSE Team **Cyklones** has emerged victorious, winning **₹1 lakh** in the Smart India Hackathon 2024.

Team Members:

- Larwin J, III CSE B
- Kruthagnya R, III CSE B
- Lakshimi Priya S, III CSE B
- Kavin A, III CSE B
- Praveen T, IV CSE B
- Prathiba S, IV CSE B
-

Problem Statement ID: SIH1717
Title: Indian version of Nagish App.
Ministry/Organization: Ministry of Social Justice and Empowerment
Nodal Center: Shobhit Institute of Engineering and Technology, Meerut
Mentors:

- Dr.N.Kousika, Assistant Professor, CSE
- Mr.Oscar Fernandas G

CSE | SMART INDIA HACKATHON 2024

Department of **CSE** has achieved a significant milestone by winning in the **Smart India Hackathon 2024**, securing a cash prize **1 Lakh.**
Team Name: Confluence

Team Members:

- Prithika Andrea Angelina F, IV CSE
- Maginesh U T, III CSE
- Mark Felix A, III CSE
- Mohana Prasad S, III CSE
- Praveen Kumar B, II CSE
- Jaihari B, II CSE

Problem Statement ID: 1695
Title: A software application for Analysis of DWLR data and raises alarms in respect of Anomalous values faulty DWLR etc.
Ministry/Organization: Ministry of Jal Shakthi
Nodal Center: New Horizon College of Engineering, Bangalore
Academic Mentor: Dr. Reshma V K, Associate Professor, CSE

MECH | SMART INDIA HACKATHON 2024

Mitigators team from the **Mechanical Engineering** Department has achieved a historic milestone by emerging as winners in the Hardware Edition of the Smart India Hackathon 2024, earning a prestigious cash prize of ₹1 lakh.

Team members:

Ramkumar S - III MECH
Kaleel Muzammil A - III MECH
Sophia Prince - III CSE
Saran R - III EEE
Thiru Arvinda Samy P - II MECH
Nikitha S - III EEE

Team Mentor:

Mr.Ramachandran N(Mechanical department)
Problem Statement ID:1788
Title: Innovative Gerontological Care Solutions: Designing the Future of Elderly Care Products
Ministry: Ministry of Skill Development and Entrepreneurship
Nodal centre: Manipal University, Jaipur, Rajasthan

CSY | SMART INDIA HACKATHON 2024

Department of **Computer Science and Engineering (Cyber Security)** has achieved a significant milestone by winning the Smart India Hackathon (SIH) 2024, securing a cash prize of ₹1 lakh.

Team Name: Data Defenders Nexus

Team Members: Kasthuri Krishna L M - III CYS

Vishnu Priya M - III CYS

Tharun Sabari P - III CYS

Sabari N - III CYS

Jeslyn M - III CYS

Rohan M - III CYS

Academic Mentor: Mr. I. Anantraj, Assistant Professor, CSE (Cybersecurity)

Title: Developing an application to detect the presence of Government-issued Personally Identifiable Information (PII) embedded in documents and data, whether inadvertently or otherwise.

Nodal Center: Sahyadri College of Engineering & Management, Mangaluru, Karnataka, held on Dec 11th & 12th 2024.

AI & DS | SMART INDIA HACKATHON 2024

Department of **AI&DS** participated in the **SMART INDIA HACKTHON** the final offline event took place at KLE University, Hubli, from 11th to 15th December 2024, student teams competed alongside World Class Industries and Institutions in this prestigious international competition.

Team No: SIH 1540 Team Name: ASPIRINE

Ministry: AICTE, MIC – STUDENT INNOVATION

Problem statement: Smart Automation

Team Members:

Team Leader: Sakthi M - III AI&DS

Team Members: Rajesh R,Rishikesh K - III AI&DS, Rohith R - III AI&DS, Sanjai K - III AI&DS, Vanisri S - III AI&DS

Faculty Mentor:

- Mr.K.Balaji - AP/AI&DS

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EEE | MIND-WIZZ 24 BUSINESS CASE

Team **BumbleBee** from the Department of **EEE** has won **First Place** in the **prestigious 'Mind-Wizz'24 Business Case Competition',** organized by **IIM Udaipur in collaboration with Technalytics,** the Analytics and IT club of IIM Udaipur on 20th October 2024. The team has been awarded a Certificate of Achievement and a Cash Prize of **Rs. 5,000/-** for their remarkable performance. This National-level competition witnessed participation from premier institutions such as IIMs, IITs, and NITs. Our team showcased exceptional **problem-solving** and strategic skills by addressing a **challenging business case** and presenting an innovative idea and prototype that stood out among the best.

Team Members:

- Sathiya Narayanan B - III EEE B
- Sanjiv Dharsan P K - III EEE B
- Mohana Surya S - III EEE B

EEE | IEEE EU-REKA 2024

Third year students team **Spartans** from the Department of **EEE** has secured **First Place** in the prestigious **IEEE Eu-reka' 2024** competition, organized by **IEEE Pune Section.** This remarkable achievement comes after a **rigorous evaluation phases** involving participants from across the nation. The team has been awarded with a **Cash Prize of Rs. 25,000/-.**

This initiative aimed at raising **STEAM literacy,** empowers and encourages the young generation as **'Ambassadors of Education'**. The event was held on 15th December 2024 at Pune and witnessed enthusiastic participation from across the country.

The event was graced by **Dr.Surekha Deshmukh,** Chair of IEEE Pune Section, **Dr. Branislav M. Notaros,** President of IEEE AP-S, Colorado State University, USA and **Dr.Christophe Fumeaux,** President-Elect of IEEE AP-S, The University of Queensland, Australia. The team impressed the judges with their impactful efforts to **engage school children** through interactive sessions and innovative approaches to address **Environmental Pollution** and **Climatic Changes** for a sustainable future.

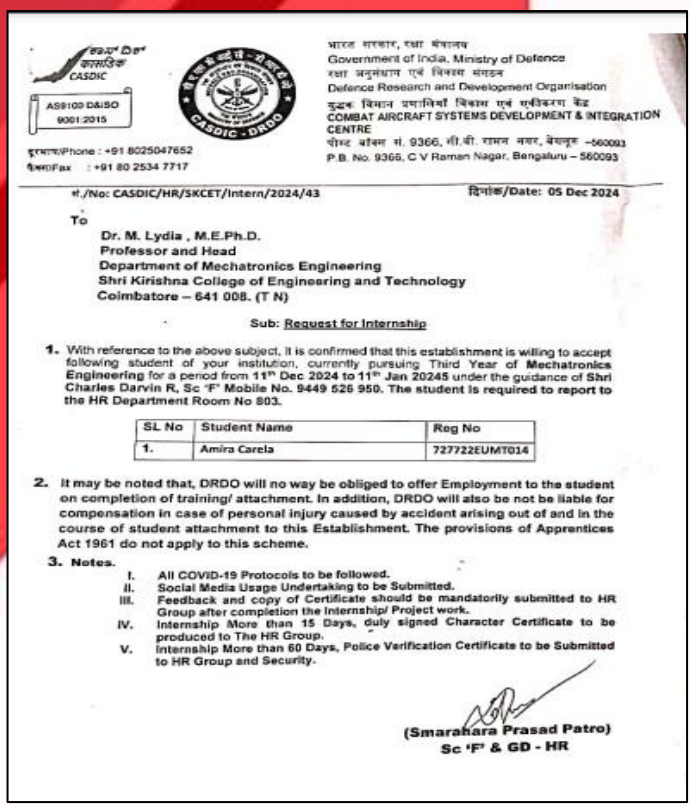
Team Members:

- Aaqil Hussain Z - III EEE A
- Abirami N - III EEE A
- Aswin Krithick G A - III EEE A
- Divyalakshmi M - III EEE A

Faculty Mentors:

Dr. S.Sivaranjani, Professor/EEE
Ms. R.Geethamani, AP/EEE

MCT | INTERNSHIP @ DRDO



भारत सरकार, रक्षा मंत्रालय
Government of India, Ministry of Defence
रक्षा अनुसंधान एवं विकास संगठन
Defence Research and Development Organisation
युद्धक विमान प्रणालियाँ विकास एवं एकीकरण केंद्र
COMBAT AIRCRAFT SYSTEMS DEVELOPMENT & INTEGRATION CENTRE
पोस्ट बॉक्स सं. 9366, सी.वी. रामन नगर, बेंगलूरु -560093
P.B. No. 9366, C V Raman Nagar, Bengaluru – 560093

दूरभाष/Phone : +91 8025047652
फैक्स/Fax : +91 80 2534 7717

सं./No: CASDIC/HR/SKCET/Intern/2024/43 दिनांक/Date: 05 Dec 2024

To
Dr. M. Lydia , M.E.Ph.D.
Professor and Head
Department of Mechatronics Engineering
Shri Krishna College of Engineering and Technology
Coimbatore – 641 008. (T N)

Sub: Request for Internship

1. With reference to the above subject, it is confirmed that this establishment is willing to accept following student of your institution, currently pursuing Third Year of Mechatronics Engineering for a period from 11th Dec 2024 to 11th Jan 20245 under the guidance of Shri Charles Darvin R, Sc 'F' Mobile No. 9449 526 959. The student is required to report to the HR Department Room No 803.

SL No	Student Name	Reg No
1.	Amira Carela	727722EUMT014

2. It may be noted that, DRDO will no way be obliged to offer Employment to the student on completion of training/ attachment. In addition, DRDO will also be not be liable for compensation in case of personal injury caused by accident arising out of and in the course of student attachment to this Establishment. The provisions of Apprentices Act 1961 do not apply to this scheme.

3. Notes.
   I. All COVID-19 Protocols to be followed.
   II. Social Media Usage Undertaking to be Submitted.
   III. Feedback and copy of Certificate should be mandatorily submitted to HR Group after completion the Internship/ Project work.
   IV. Internship More than 15 Days, duly signed Character Certificate to be produced to The HR Group.
   V. Internship More than 60 Days, Police Verification Certificate to be Submitted to HR Group and Security.

(Smarahara Prasad Patro)
Sc 'F' & GD - HR

Ms. Amira Carela, student of Third year **Mechatronics Engineering** has been selected for internship in DRDO.

CIVIL | STUDENT ACHIEVEMENT

Third year Civil engineering student **Nishanthini R has** completed Half Marathon category (21.1 Km) on 15th December 2024. It was organised by Coimbatore Cancer Foundation and corresponding funds will be used to operate cancer affected kids.

ECE | IN PLANT TRAINING @ AKASHVANI

PRASAR BHARATI
INDIA'S PUBLIC SERVICE BROADCASTER
AKASHVANI ,TIRUNELVELI , TAMIL NADU- 627 002

सत्यमेव जयते

आकाशवाणी

CERTIFICATE

This is to certify that Mr /Ms NAGA MUTHU KUMARI S, B.E, ECE III YEAR a student of SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY, COIMBATORE has successfully Completed 5 days In Plant Training from 09.12.2024. To 13.12.2024 at AKASHVANI ,TIRUNELVELI.

TIRUNELVELI
DATE : 13.12.2024

13/12/24
DIRECTOR (E)
AKASHVANI - TIRUNELVELI

Naga Muthu Kumari S, student of **Third** year **ECE** has attended 5 days In plant training from 09.12.2024 to 12.12.2024 offered by Prasar Bharati, India's Public Service broadcaster, Akashvani, Tirunelveli. The highlights of the In plant training were practical training about the technicalities, communication and infrastructure required in production.

ECE | IN PLANT TRAINING @ ROBOMATIC

ROBOMATIIC
A STREAM BASED EDUCATION

700/140, First Street Extension,
100 Feet Road, Gandhipuram,
Coimbatore - 641 012.
✆ +91 97886 24219
Email : info@robomatiic.in
www.robomatiic.in

14.12.2024

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms Nivetha E** doing **Second** year B.E Electronics and Communication Engineering at Sri Krishna College of Engineering and Technology has successfully undergone internship on **"Internet of Things (IoT)"** held at **ROBOMATIIC (A Division of CADD Technologies)**, COIMBATORE from 28.11.2024 to 14.12.2024.

During the period of her internship training programme with us she was found punctual and hardworking.

We wish her all the best for the future Endeavour's,

Thanking you.

For Robomatiic (A Division of CADD Technologies),

V. Lavanya

Lavanya.V
Branch Manager
PH: +91 99422 24219

Nivedha E, student of **Second** year **ECE** has attended 15 days In plant training from 28.11.2024 to 14.12.2024 which was offered by Robomatics private Limited, Coimbatore. The In plant training provided hands-on exposure to the fascinating world of industrial robotics like: Understanding Robotics, Software Development.

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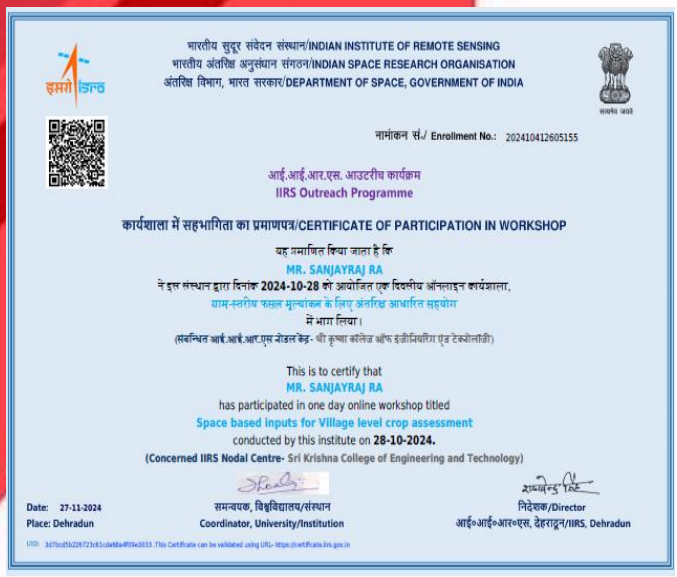
M.TECH CSE | IEEE LIFE MEMBERS CONGRESS 2024

Dhanush A.B, student of **M.Tech CSE** has actively participated in "All India Students Young Professionals Women in Engineering Life Members Congress 2024" organized by IEEE Madras Section and IEEE India Council, on December 7 and 8, 2024, at the College of Engineering, Guindy, Anna University, Chennai, Tamil Nadu.

ECE | ONLINE TRAINING PROGRAMME


भारतीय सुदूर संवेदन संस्थान/INDIAN INSTITUTE OF REMOTE SENSING
भारतीय अंतरिक्ष अनुसंधान संगठन/INDIAN SPACE RESEARCH ORGANISATION
अंतरिक्ष विभाग, भारत सरकार/DEPARTMENT OF SPACE, GOVERNMENT OF INDIA

नामांकन सं./ Enrollment No.: 202410412605155

आई.आई.आर.एस. आउटरीच कार्यक्रम
IIRS Outreach Programme

कार्यशाला में सहभागिता का प्रमाणपत्र/CERTIFICATE OF PARTICIPATION IN WORKSHOP

यह प्रमाणित किया जाता है कि
MR. SANJAYRAJ RA
ने इस संस्थान द्वारा दिनांक 2024-10-28 को आयोजित एक दिवसीय ऑनलाइन कार्यशाला,
ग्राम-स्तरीय फसल मूल्यांकन के लिए अंतरिक्ष आधारित सहयोग
में भाग लिया।
(संबन्धित आई.आई.आर.एस मोडल केंद्र- श्री कृष्णा कॉलेज ऑफ इंजीनियरिंग एंड टेक्नोलॉजी)

This is to certify that
MR. SANJAYRAJ RA
has participated in one day online workshop titled
Space based inputs for Village level crop assessment
conducted by this institute on 28-10-2024.
(Concerned IIRS Nodal Centre- Sri Krishna College of Engineering and Technology)

Date: 27-11-2024
Place: Dehradun
समन्वयक, विश्वविद्यालय/संस्थान
Coordinator, University/Institution
निदेशक/Director
आई०आई०आर०एस, देहरादून/IIRS, Dehradun

भारतीय सुदूर संवेदन संस्थान/INDIAN INSTITUTE OF REMOTE SENSING
भारतीय अंतरिक्ष अनुसंधान संगठन/INDIAN SPACE RESEARCH ORGANISATION
अंतरिक्ष विभाग, भारत सरकार/DEPARTMENT OF SPACE, GOVERNMENT OF INDIA

नामांकन सं./ Enrollment No.: 202410412605119

आई.आई.आर.एस. आउटरीच कार्यक्रम
IIRS Outreach Programme

कार्यशाला में सहभागिता का प्रमाणपत्र/CERTIFICATE OF PARTICIPATION IN WORKSHOP

यह प्रमाणित किया जाता है कि
MR. SREETHAR N J
ने इस संस्थान द्वारा दिनांक 2024-10-28 को आयोजित एक दिवसीय ऑनलाइन कार्यशाला,
ग्राम-स्तरीय फसल मूल्यांकन के लिए अंतरिक्ष आधारित सहयोग
में भाग लिया।
(संबन्धित आई.आई.आर.एस मोडल केंद्र- श्री कृष्णा कॉलेज ऑफ इंजीनियरिंग एंड टेक्नोलॉजी)

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Space based inputs for Village level crop assessment
conducted by this institute on 28-10-2024.
(Concerned IIRS Nodal Centre- Sri Krishna College of Engineering and Technology)

Date: 27-11-2024
Place: Dehradun
समन्वयक, विश्वविद्यालय/संस्थान
Coordinator, University/Institution
निदेशक/Director
आई०आई०आर०एस, देहरादून/IIRS, Dehradun

भारतीय सुदूर संवेदन संस्थान/INDIAN INSTITUTE OF REMOTE SENSING
भारतीय अंतरिक्ष अनुसंधान संगठन/INDIAN SPACE RESEARCH ORGANISATION
अंतरिक्ष विभाग, भारत सरकार/DEPARTMENT OF SPACE, GOVERNMENT OF INDIA

नामांकन सं./ Enrollment No.: 202410412605172

आई.आई.आर.एस. आउटरीच कार्यक्रम
IIRS Outreach Programme

कार्यशाला में सहभागिता का प्रमाणपत्र/CERTIFICATE OF PARTICIPATION IN WORKSHOP

यह प्रमाणित किया जाता है कि
MR. VIGNESH
ने इस संस्थान द्वारा दिनांक 2024-10-28 को आयोजित एक दिवसीय ऑनलाइन कार्यशाला,
ग्राम-स्तरीय फसल मूल्यांकन के लिए अंतरिक्ष आधारित सहयोग
में भाग लिया।
(संबन्धित आई.आई.आर.एस मोडल केंद्र- श्री कृष्णा कॉलेज ऑफ इंजीनियरिंग एंड टेक्नोलॉजी)

This is to certify that
MR. VIGNESH
has participated in one day online workshop titled
Space based inputs for Village level crop assessment
conducted by this institute on 28-10-2024.
(Concerned IIRS Nodal Centre- Sri Krishna College of Engineering and Technology)

Date: 27-11-2024
Place: Dehradun
समन्वयक, विश्वविद्यालय/संस्थान
Coordinator, University/Institution
निदेशक/Director
आई०आई०आर०एस, देहरादून/IIRS, Dehradun

Sanjayraj R A , Sreethar N J, Vignesh, Sajeth AG, Tarun B, Vanathi A, Madhanyoharaj S, Mohamed Umar Farook M, Sakthi Mugesh V, Mithiran P A students of ECE have received a participation certificate for online training programme conducted by Indian Institute of Remote sensing, ISRO Dehardun on “Space based inputs for village level crop assessment” during October 28,2024

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EVENTS

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EEE | ATAL - FDP INAUGURATION

Department of **Electrical and Electronics Engineering**, SKCET organized a **Six-day Online Faculty Development Programme** sponsored by **AICTE Training and Learning (ATAL) Academy** on **'Climatic Crisis and Mitigation by Sustainable Development of Energy and Environment Systems'** from December 16 to 21, 2024.

The inaugural ceremony was conducted virtually in a splendid manner.

Dr. K.C. Ramya, Professor and Head of EEE and Coordinator of the event extended a warm welcome to the gathering. Our esteemed Principal Sir, **Dr. K. Porkumaran** delivered the presidential address, setting the tone for the event. The Guest of Honor, **Dr. K. Boopathi, Director & Division Head at the National Institute of Wind Energy (NIWE), Ministry of New and Renewable Energy, Government of India, Chennai** provided valuable insights into the theme, emphasizing the importance of addressing **Climatic crisis and aligning with the Sustainable Development Goals** (SDGs).

The vote of thanks was delivered by **Dr. S. Sivaranjani,** Co-Coordinator of the FDP, expressing gratitude to all contributors and participants. A total of **151 participants** from various institutions across the country have registered for this FDP, showcasing the event's national reach and relevance.

Impact of the FDP: This programme aims to equip faculty members with cutting-edge knowledge and strategies to address climatic challenges and develop sustainable energy and environmental systems, fostering a collaborative approach to achieving global sustainability goals!

MCT | GREENING OUR CAMPUS

As a meaningful step toward sustainability at Sri Krishna College of Engineering and Technology, five trees were planted at our campus as part of Vanam Initiative under the Solar Electric Vehicle Championship. This green initiative was spearheaded by our **Principal Dr. Porkumaran**, whose inspiring vision continues to drive efforts that make our campus a model of sustainability.

Team Astra is the masterminds behind the groundbreaking Solar Car Project.

Captain: Hariharan S. (III Year)

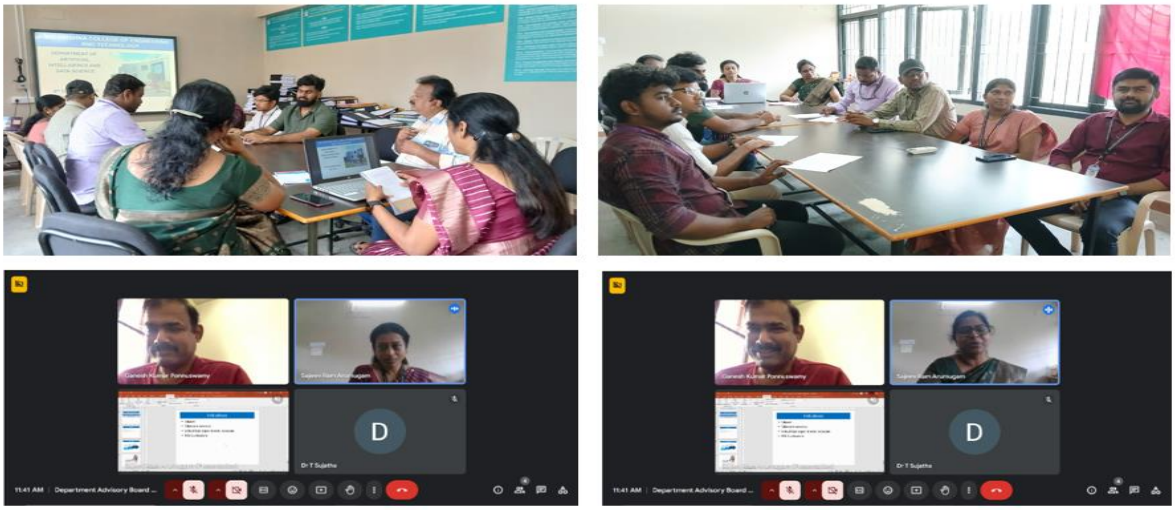
Vice-Captain: Ashmita (III Year)

EEE | BOS MEETING

Department of Electrical and Electronics Engineering organized the **19th Board of Studies (BoS) Meeting** on 07.12.2024 in the EEE Conference Hall at 10.30 AM. The meeting was convened to approve the R2022 curriculum for II, IV, and VI Semester Courses.

Dr. K.C.Ramya, Professor and Head of the Department, EEE, chaired the meeting. The following distinguished members participated in the deliberations: **Dr. V.Geetha,** Professor & Head, Department of EEE, Government College of Engineering, Salem - Anna University Nominee. **Dr. P.Somasundaram,** Professor, Department of EEE, College of Engineering - Guindy Campus, Anna University, Chennai - Academic Expert. **Dr. M.S.Sivagama Sundari,** Professor, Department of EEE, Amrita School of Engineering, Coimbatore - Academic Expert. **Mr. A.Rajkumar,** Project Lead Manager, Automotive Embedded, TATA Technologies Limited, Coimbatore - Industry Expert. **Mr. M.Shibi Chakaravarthy,** Project Head, Electrical Installations, Murugu Electrical Integrators, Coimbatore - Alumni Member. The board members provided valuable insights, significantly enriching the discussions, and the proposed semester courses for the specified batches were collectively approved. The department cluster heads and senior faculty members also attended the meeting.

AI&DS | DEPARTMENT ADVISORY BOARD (DAB) MEETING



Department Advisory Board (DAB) meeting for **Artificial Intelligence and Data Science** Department was convened on December 04, 2024.

Participants of the meeting:

1. **Dr. S. Venkata Lakshmi,** Prof &Head/AI &DS, SKCET – Chairperson
2. **Mr. Ganesh Kumar,** Data Analyst, TCS, Chennai. - Industrial Member
3. **Dr.Esther Daniel,** Associate Professor, School of Computing, Karunya Institute of Technology and Sciences, Coimbatore. - Academic Member & **Mr. S. Babu -** Parent member

The meeting commenced with a brief introduction by Chairperson, who welcomed all attendees and outlined the agenda for the meeting. The key topics for discussion were:

Introduction of new courses, Revisions to the existing syllabus to better align with industry standards. Collaborative efforts with industry partners to enhance practical learning experiences. Faculty achievements such as publications, awards, and recognitions. Student accomplishments in various competitions, internships, and academic performances. Percentage of students placed and top recruiters, Average and highest salary packages offered, Initiatives taken to enhance placement opportunities and improve student employability. CIA Performance for the previous Semester. Introduction of new academic and extracurricular programs, Strategies to enhance student engagement and learning experiences. The meeting concluded with a summary of the key points discussed and an open floor for any additional comments or questions from the attendees. Chairperson thanked everyone for their participation and contributions.

MCT | BOS MEETING

Department of **MCT** conducted 17th BoS Meeting at 9.30am on 6.12.24.

BoS Members:

University Nominee:

Dr. G. B. Bhaskar, Professor, Department of Production Technology, MIT Campus, Anna University, Chennai

Academic Experts:

Dr. R. Senthilnathan, Professor, Mechatronics Engineering, SRM Institute of Science and Technology, Chennai.

Dr. Arun Tom Mathew, Professor, Mechanical Engineering, Vellore Institute of Technology, Vellore, Tamil Nadu.

Industry Expert:

Mr. Anand Rajkumar P, Regional Service Manager - South India, Customer Service Divisions, Yokogawa India Ltd, Chennai

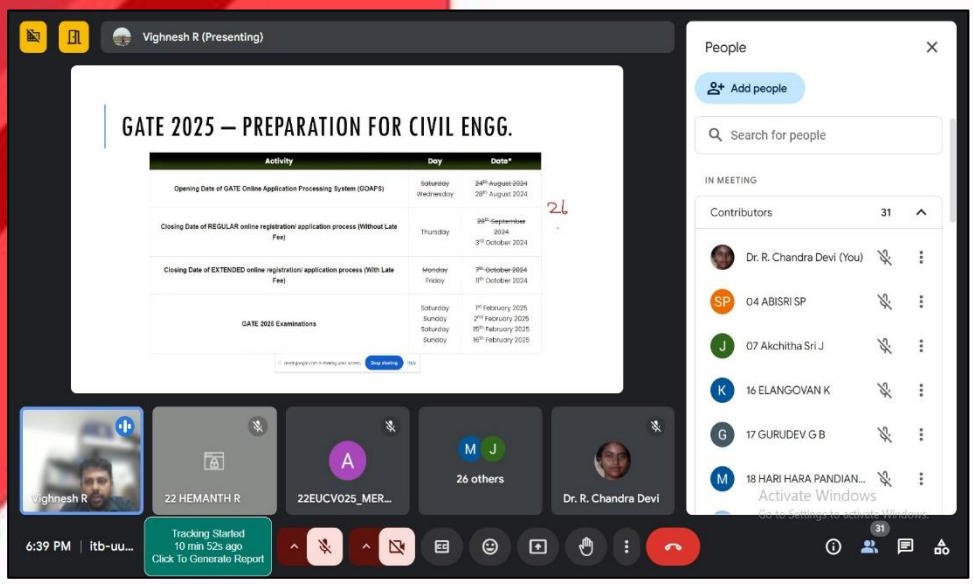
Alumni Member:

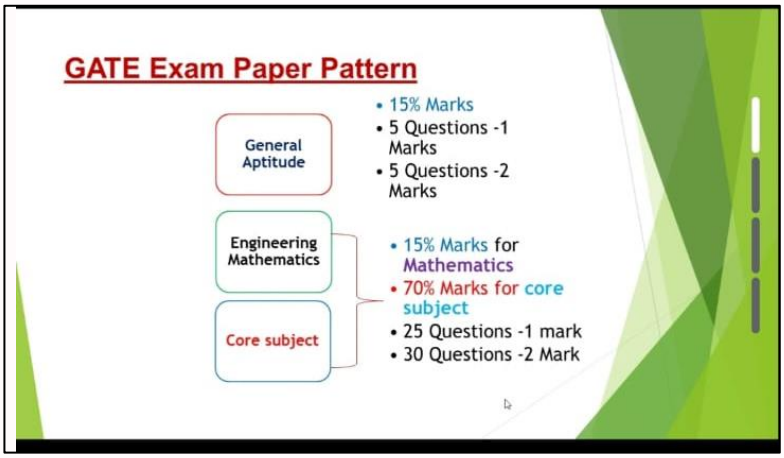
Mr. Venkkataraman R (Batch 2006-2010), Cloud Architect, Presidio Solutions Private Limited, Coimbatore.

The agenda of the meeting were:

- To confirm and approve Syllabus of Semester Professional, Emerging Electives courses
- To confirm and approve core courses of R2022 (2023-2027 Batch) for 6th Semester

CIVIL | GATE 2025 PREPARATION





Dr. P. Muthupriya, Professor and Head, Civil Engineering and **Mr. R. Vighnesh**, Assistant Professor, Department of Civil Engineering, presented a session on **"GATE 2025 Preparation"** on 4th and 11th December 2024. Students from Civil Engineering Department attended the session.

Outcomes of the session:

- Syllabus for Civil Engineering Department for GATE 2025 with subject-wise marks split.
- Different levels of questions that will be asked for GATE 2025.
- Practicing different levels of questions.
- Accessing the mock test using the official website of GATE 2025.

MCT | DEPARTMENT ADVISORY BOARD (DAB) MEETING

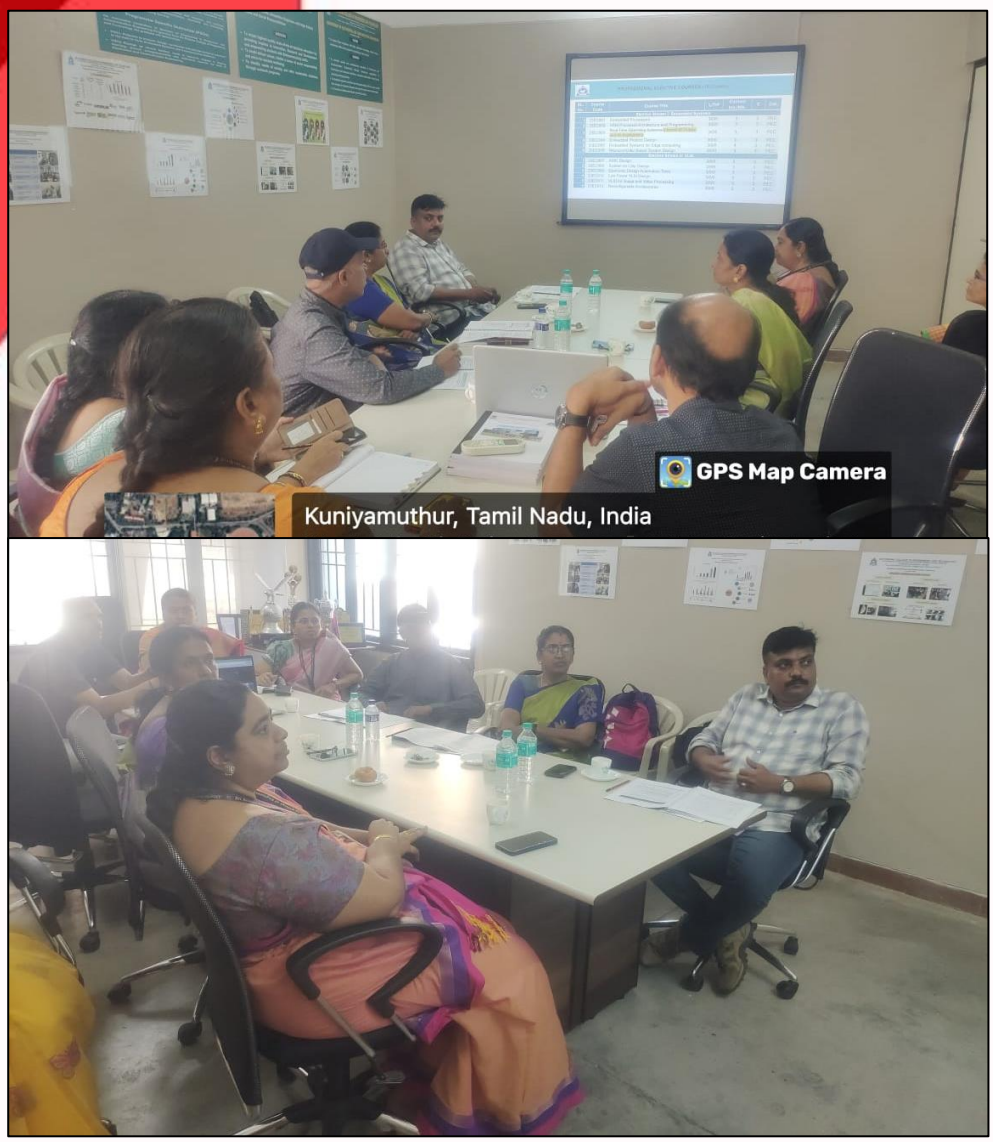
Department of **Mechatronics Engineering** conducted Department Advisory Board Meeting of academic year 2024 - 25 on 03 12.2024.

1. Dr. Vinod. B, Professor & Head, Department of Robotics and Automation Engineering, PSG college of Technology, Coimbatore.
2. Mr. Bharat Balaji, Founder and Proprietor, DJ Power Solutions, Coimbatore
3. Mr. K. Arumugam, F/o, Aarthi. A Sri Bhrama Sakthi Engineering, Coimbatore
4. Mr. R. S. Vignesh Ram Kumar, Director, V.R. K Power Controls, Coimbatore
5. Dr. P. Ashokavarthanan, Dean Innovations, Professor and Head,
6. Mechanical Engineering, SKCET

along with faculty members of Mechatronics Engineering Department attended the meeting.

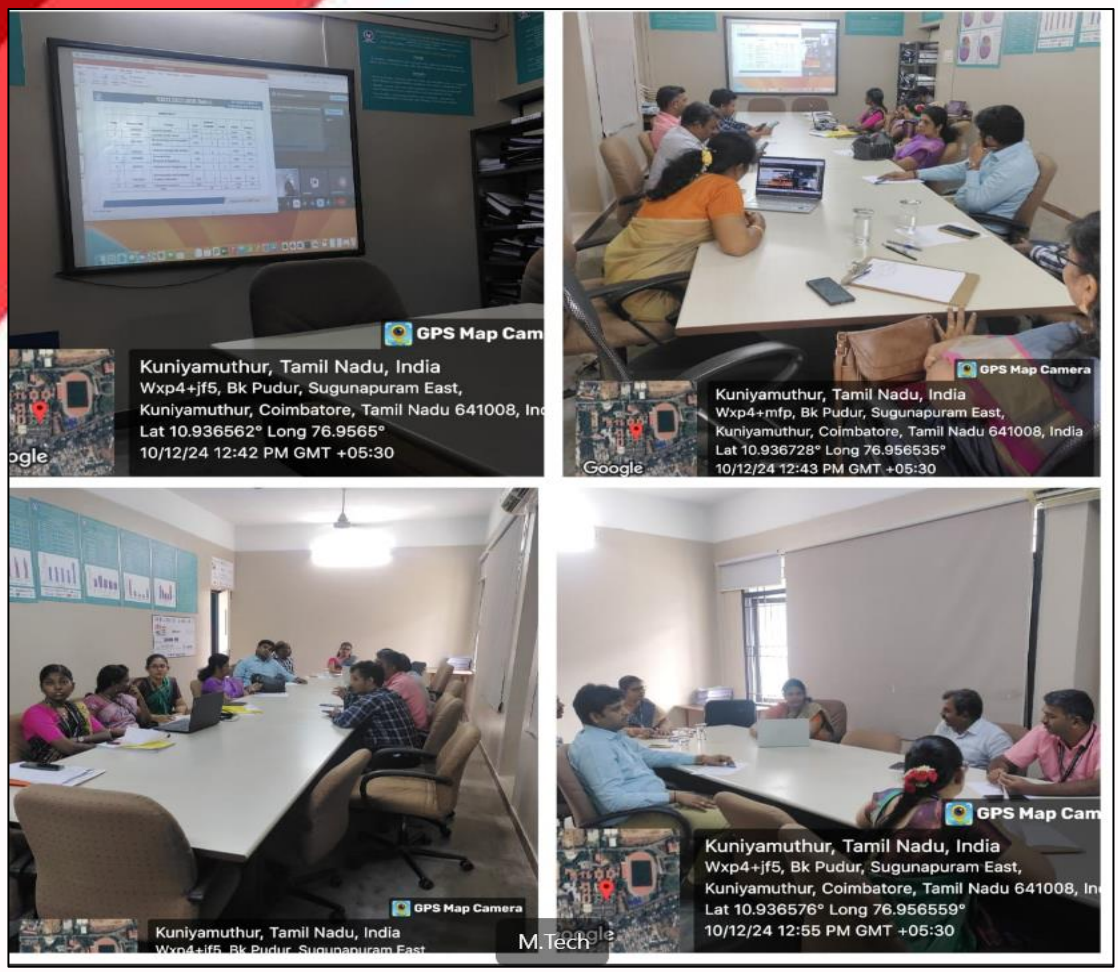
- The members engaged in comprehensive discussions on various aspects, including the department's achievements, faculty and student accolades, the effectiveness of the teaching-learning process, curriculum enrichment, industry collaborations, research initiatives, internships, student placements, entrepreneurial ventures, and opportunities for higher education.

ECE | BOS MEETING



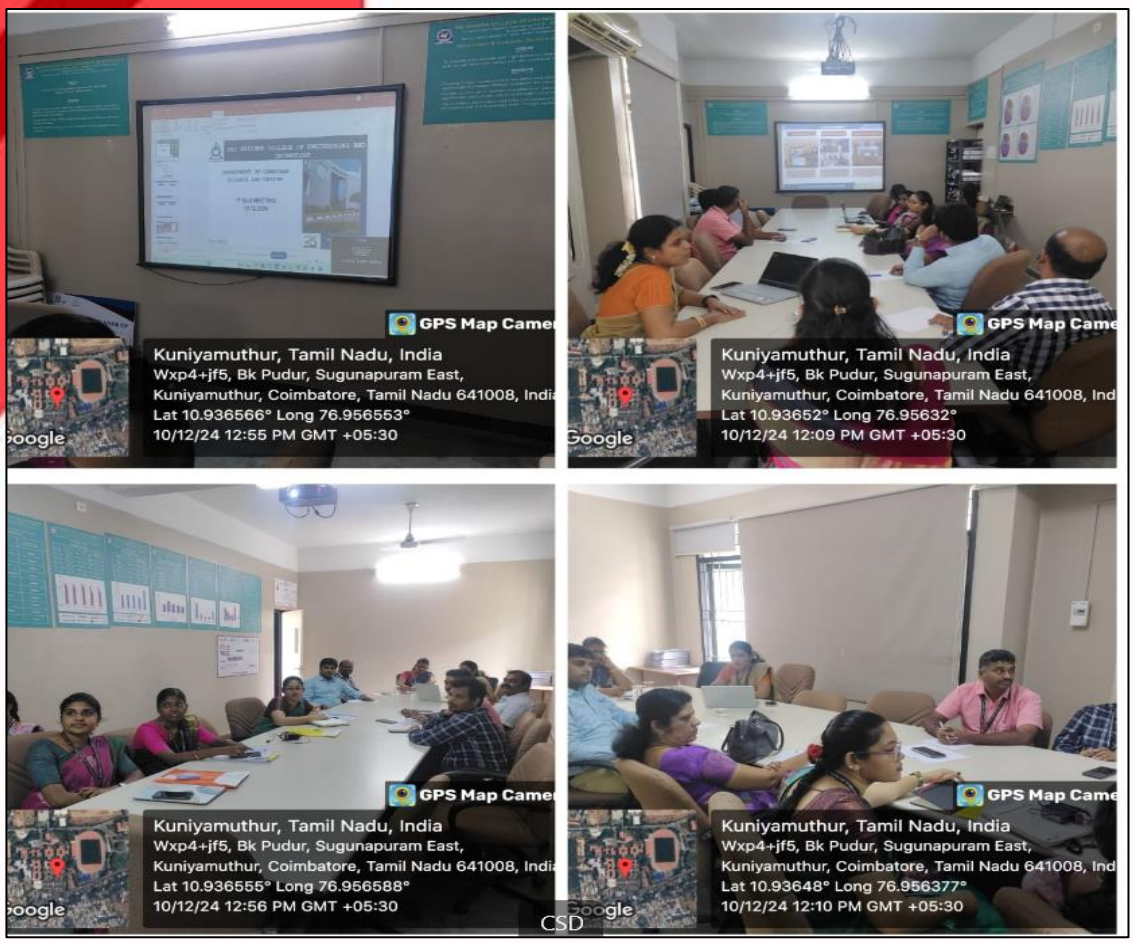
Department of **ECE** conducted **19th Board of Studies Meeting** on 06.12.2024. The meeting was convened by **Dr S Sasipriya**, Head of the department along with external experts Dr.C.Santhi Professor/ECE, Government College of Technology, Coimbatore. Dr.Ravi Visvanathan Associate Professor (Senior), School of Electronics Engineering, VIT Chennai. Dr.J.P.Anita Associate Professor/ECE, Amrita Vishwa Vidyapeetham, Coimbatore. Mr.Karthikeyan Senior Director, Capgemini Engineering, Center head, Coimbatore. Mr.K.Arun Kumar Vikram, Senior member of Technical Staff, AMD, Bangalore

M.TECH CSE | BOS MEETING



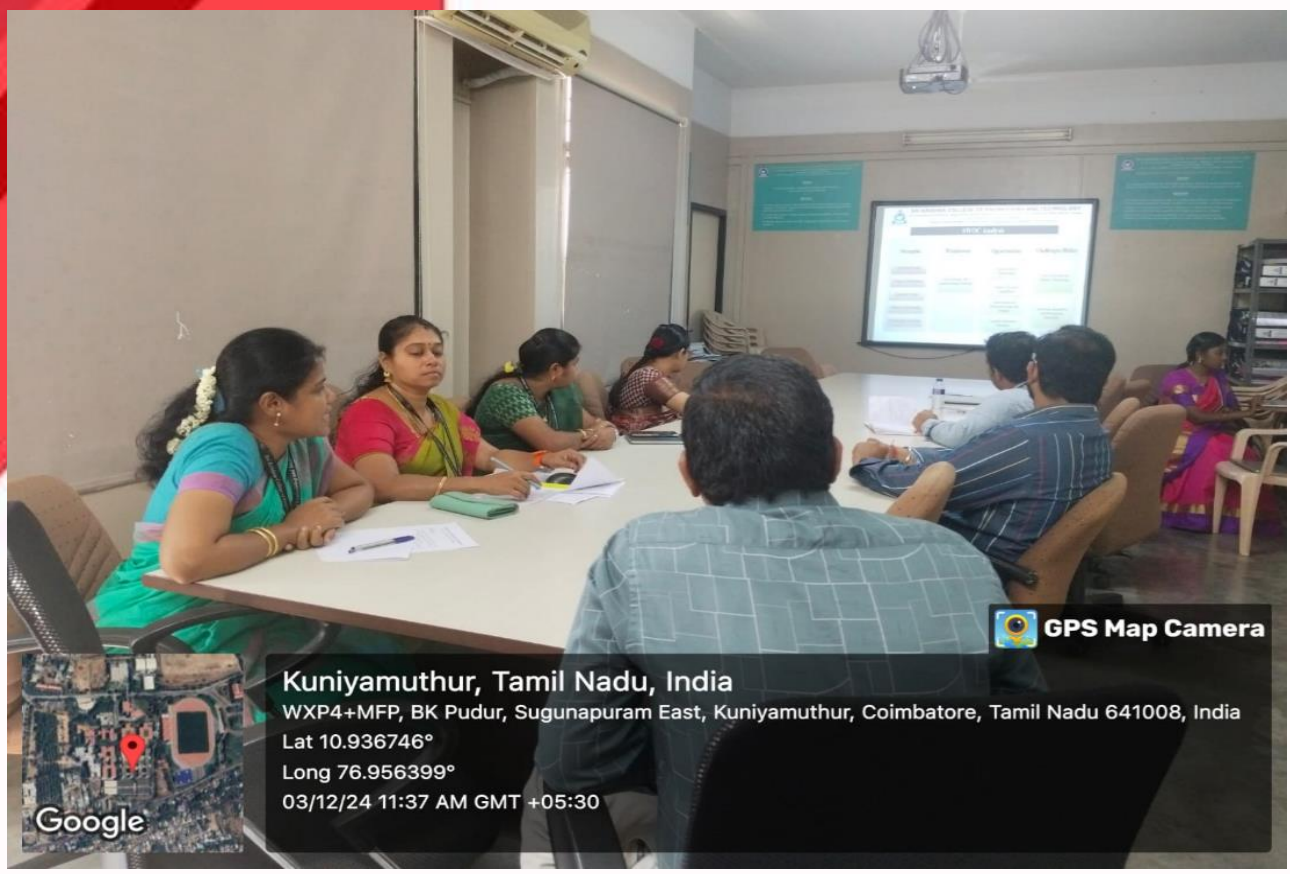
Department of **M.Tech. Computer Science and Engineering** (5 Year Integrated) has conducted 12th BoS Meeting was held on 10.12.2024 11.20 am at CSE Conference Hall for the approval of Major and Minor Elective verticals offered by the department. The meeting was conveyed by Dr.U,Barakkath Nisha , Professor & Head, M.Tech.CSE. BoS Members - University Nominee was Dr. T. Sree Sharmila, Associate Professor, Department of Computer Science and Engineering, CEG Campus, Anna University, Chennai. Academic Experts were Dr.N.Radhika, Professor, School of Computing, Amrita Vishwa Vidyapeetham, Coimbatore and Dr.P.M.Durai Raj Vincent, Associate Professor, School of Information Technology and Engineering, Vellore Institute of Technology. Industry Expert was Mr.S.Rajkumar, Associate Director suggested few tips to enhance the curriculum to a sophisticated Level.

CSD | BOS MEETING



Department of **Computer Science and Design** has conducted 6 th BoS Meeting was held on 10.12.2024, 11.45 am at CSE Conference Hall for the approval of Major and Minor Elective verticals offered by the department. The meeting was conveyed by Dr.U.Barakkath Nisha , Professor & Head, Department of CSD . BoS Members - University Nominee was Dr.T. Sree Sharmila, Associate Professor Department of Computer Science and Engineering, CEG Campus, Anna University, Chennai. Academic Experts were Dr. Vinoth Kumar C N SAssociate Professor, Faculty of Engineering and Technology, SRM Institute of Science and Technology Chennai. Dr.T.Senthil Kumar Associate Professor, School of Computing, Amirta Vishwa Vidyapeetham Industry Expert was Mr.Sachin Agarwal, Senior devOps Engineer, Securonix, Pune gave suggestions to have foreign university collaborations for CSD department Students to enhance their skills in the field of UI/ UX design and converting them to a product and also they gave few suggestions on adding diverse Major and Minor Elective vertical courses to make CSD Students excel in diverse fields.

M.TECH CSE & CSD | DAC MEETING



Department of **M.Tech CSE and CSD** successfully conducted its Departmental Advisory Committee (DAC) meeting on 3.12.2024 to deliberate on key academic and research activities. The meeting was conveyed by **Dr.U.Barakkath Nisha** , Professor & Head, Department of M.Tech and CSD attended and presided by Academic committee member Dr.K.Seethapan, Assistant Professor Anna University Regional Campus, Coimbatore, and Industry Expert Member Mr.R.Gokul Technology Lead, Archeplay Bangalore and also the faculties of the department, fostering a collaborative environment to discuss curriculum updates, research progress, student development strategies, and future initiatives. Constructive feedback and recommendations were provided to enhance the overall quality of research in the department.

CSBS | DEPARTMENT ADVISORY BOARD COMMITTEE MEETING

Department of **Computer Science and Business Systems** conducted the Department Advisory Board Committee (DAB) meeting on 5th December 2024 in the CS Conference Hall, Skcet. The meeting was convened by Dr.P.Shanthi, Professor and Head, Department of CSBS.

Guidences and Feedbacks were given by the

- Dr.M. Senthil Kumar - Academic Expert, Associate Professor– Department of CSE, Amrita Vishwa Vidyapeetham, Coimbatore.
- Mr. R. Vimal Kumar – Industry Expert, Senior Consultant, Capgemini, Coimbatore.
- Dr.Thirumaraiselvi – Senior Member, Professor – Department of ECE, SKCET.

Important topics discussed were Faculty membership, student performance, industry interaction, department accomplishments, teaching and learning methods, CO and PO attainment, the virtual lab for the upcoming semester, Assessment instruments, and evaluation techniques.

CSBS | BOS MEETING

Department of **Computer Science and Business Systems** conducted the 10th Board of Studies meeting on 10th December 2024 in the CS Conference Hall. The meeting was convened by the BoS Coordinator, **Dr.P. Shanthi**. The main agenda of the meeting was to approve the syllabi of core and elective courses of R2022(2022-2026), R2022 (2022-2026 batch), R2022 (2023-2027 batch), R2022(2024-2028 Batch) of B.Tech – Computer Science and Business Systems.

BoS Members:

Chairperson: Dr. P.Shanthi, Professor and Head of the Department, Department of Computer Science and Business Systems, SKCET.

University Nominee: Dr. T. Sree Sharmila, Associate Professor, Department of CSE, CEG Campus, Anna University, Chennai.

Academic Experts:

- **Dr. S. Vairamuthu**, Associate Professor, School of Computer Science and Engineering, VIT, Vellore.
- **Dr. Prashant R. Nair**, Associate Professor, School of Computing, Amrita Vishwa Vidyapeetham, Coimbatore.

Industry Expert:

- **Mr. Ganesh Thirunavukkarasu M,** Regional Head, Tata Consultancy Services, Chennai.

Alumni Expert:

- **Mr. Santhosh Murthi,** Co-Founder, Tech Majlis, Muskat.

CSBS | PROGRAMME ASSESSMENT COMMITTEE (PAC) MEETING

Department of **Computer Science and Business Systems** conducted the Department Advisory Board Committee (DAB) meeting on 30th November 2024. The meeting was convened by **Dr. P. Shanthi**, Professor and Head of the Department of CSBS. Guidances and Feedbacks were given by **Dr. R. Ramesh Kumar,** Dean of Computing Sciences and **Dr. R. Jayasudha Subburaj**, Dean of Placement. The topics discussed were curriculum and syllabus, technical events conducted, curricular and extracurricular activities, Hackathon Participation, student publications, student internships, Mini Projects, and Placement Details.

CSE (CYBER) | BOS MEETING

Department of **Cyber Security (CSE)** conducted the 6th Board of Studies meeting10th of December 2024. The meeting was convened by the BoS Coordinator, **Dr.P. Shanthi.** The main agenda of the meeting was to approve the syllabi of core and elective courses of R2022 (2022-2026 batch), R2022 (2023-2027 batch) and R2022 (2024-2028 batch) of B.E CSE (Cyber Security).

BoS Members:

Chairperson: Dr.P.Shanthi, Professor and HOD**,** Department of Computer Science and Engineering (Cybersecurity),SKCET.

University Nominee: Dr. T. Sree Sharmila, Associate Professor, Department of CSE, CEG Campus, Anna University, Chennai.

Academic Experts:

- Dr. M. Ananad, Professor, School of Computer Science and Engineering, VIT, Chennai.
- Dr. R. Gowtham, Associate Professor – Department of CSE, Amrita Vishwa Vidyapeetham, Coimbatore.

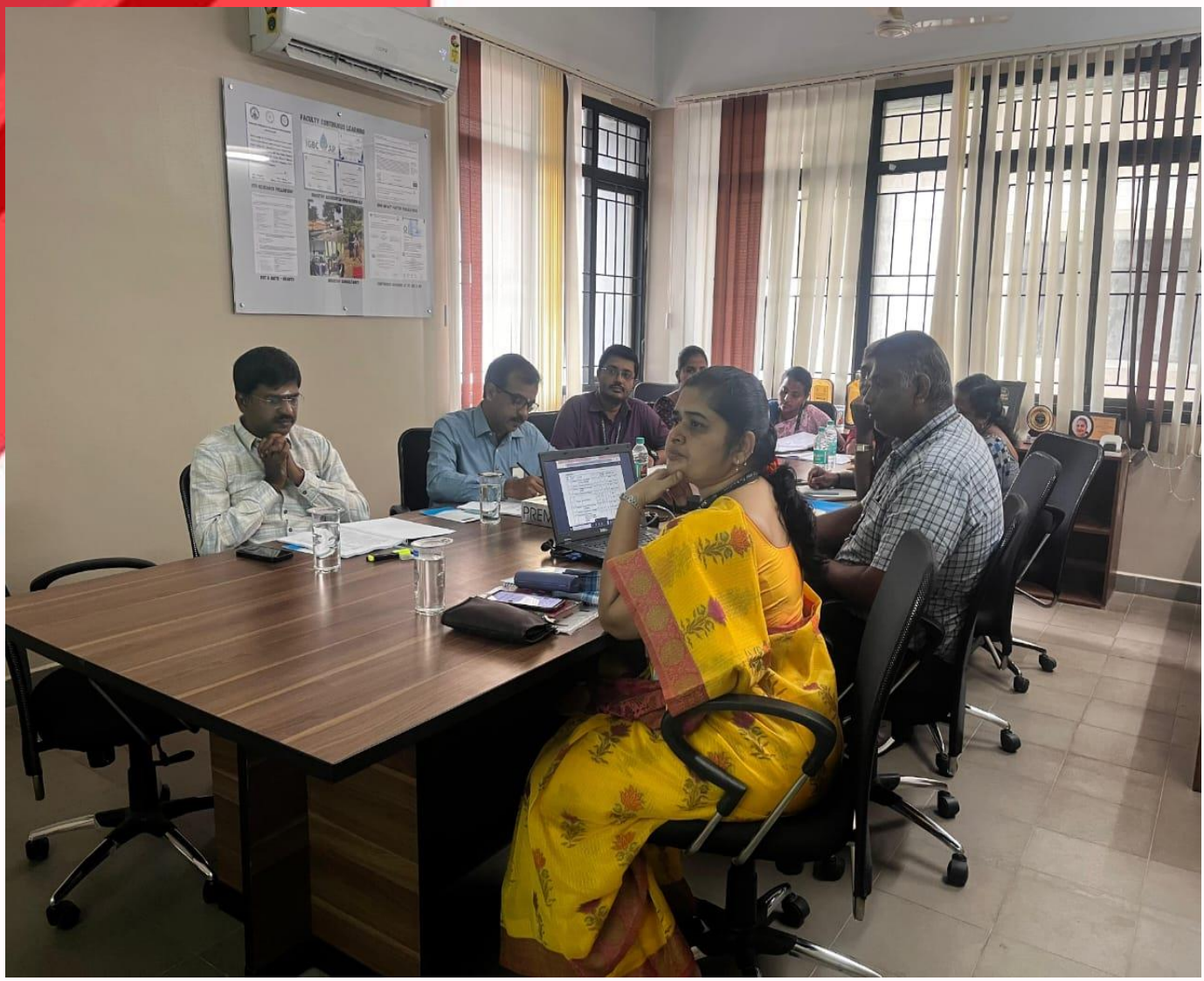
Industry Expert:

- Mr.Yashwant, Manager, EY GDS, Trivandrum.

Alumni Expert:

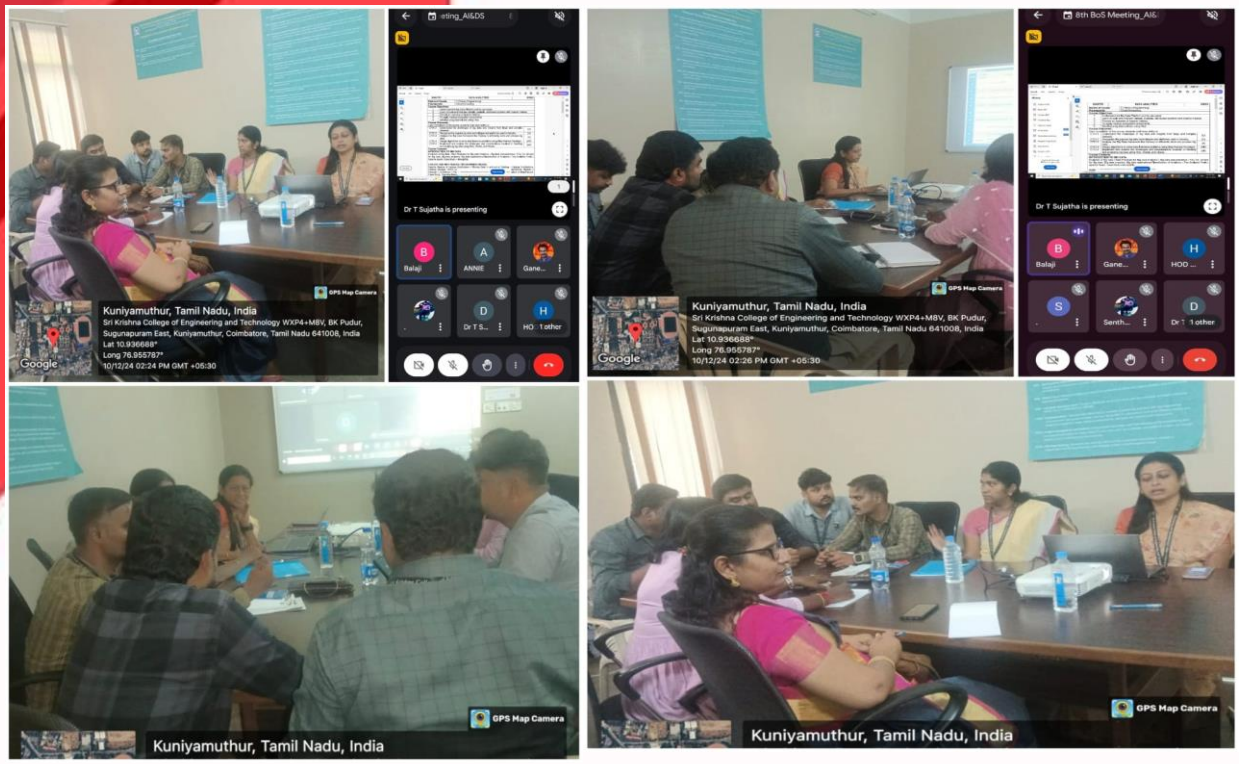
- Dr. Santhosh Murthi, Co-Founder – Tech Majlis, Muskat.

CIVIL | BOS MEETING



Department of **Civil Engineering** conducted its **17th Board of Studies Meeting** on 14th December 2024. The meeting was convened by **Dr. P. Muthupriya,** Professor and Head, Department of Civil Engineering along with external experts Dr. J. Jeyanthi, Professort and Head, GCT, Coimbatore, Dr. T. Palanisamy, Associate Professor, NIT, Karnataka, Dr. M.P. Muthuraj, Professor and Head, CIT, Coimbatore, Dr. Sudhahar Adithan, Chief Consultant, Dimensions and Ms. N. Keerthana, Assistant Engineer, PWD, Coimbatore. The comments from all the expert members were recorded.

AI&DS | BOS MEETING



Department of **Artificial Intelligence and Data Science** convened 8th **Board of Studies** meeting on 10.12.2024. The meeting was headed by **Dr.S.Venkata Lakshmi**, Professor & Head of the Department, AI&DS along with University Nominee, Dr. T Sree Sharmila, Associate Professor, Department of CSE, CEG Campus, Anna University, Chennai.

Academic Experts: Dr.M. Premalatha, Associate Professor, Department CSE, VIT – Chennai, Dr.R Annie Uthra, Professor & Head, Department of Computational Intelligence, SRM Institute of Technology, Chennai.
Industry Expert: Mr.J Ganesh Kumar Ponnusamy, Data Analyst, TCS, Chennai.
Alumni: Ms P Prabitha, Data Engineer, ServiceNow, Bangalore.

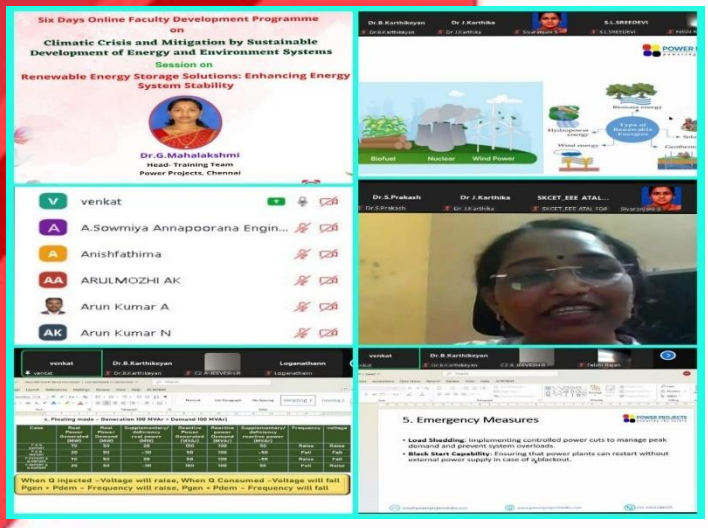
The BOS was conducted for the approval of Regulation 2022 Semesters VII, Emerging Electives and Ratification for the batches 2023 - 27 and 2024 - 2028. The BoS members gave their valuable suggestions to improve the teaching learning process and to bridge the Academic - Industry gap.

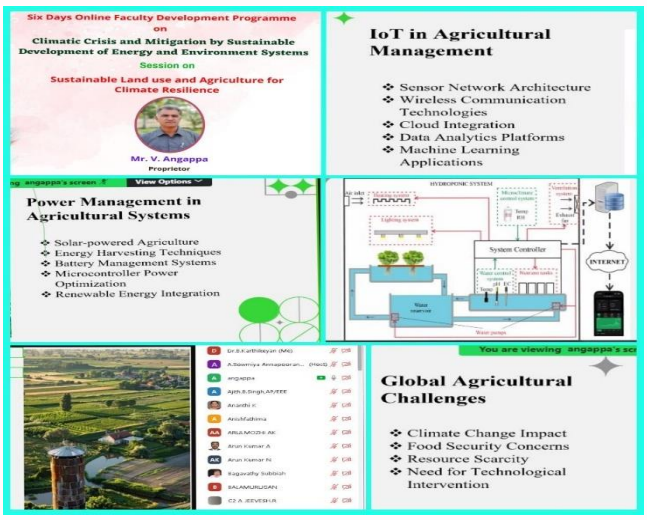
EEE | ATAL - FDP DAY- 1

Session 1
Date: 16.12.2024
Time: 06.30 PM to 08.00 PM
Resource Person 1: Dr. K. Boopathi, Director & Division Head, National Institute of Wind Energy (NIWE), Ministry of New and Renewable Energy, Government of India, Chennai.
Topic: Forecasting Change: Exploring Conditions and Climatic Shifts
Session 1 Focus:
Climate change impact, Wind Power potential map, From Wind to Electric Power, Wind Turbine Technology options, Forecasting wind and climatic shifts, Techniques to explore conditions and climatic shifts.

Session 2
Time : 08.00 PM to 09.30 PM
Resource Person 2:
Dr. P.Thambidurai, Professor, Department of Costal Disaster Management, Pondicherry University, Port Blair Campus.
Topic: Climatic change impacts, risks and vulnerabilities
Session 2 Focus:
Key sectors affected by climate change, Current knowledge about responding to climate change, Climate change, disasters, and security issues: concerns and implications for India, Climate disaster - Security nexus, Co-benefits resulting from mitigation and low-carbon development, Climate change impacts - India Scenario.

EEE | ATAL - FDP DAY- 2





Session 3
Date: 17.12.2024
Time: 06.00 PM to 07.30 PM

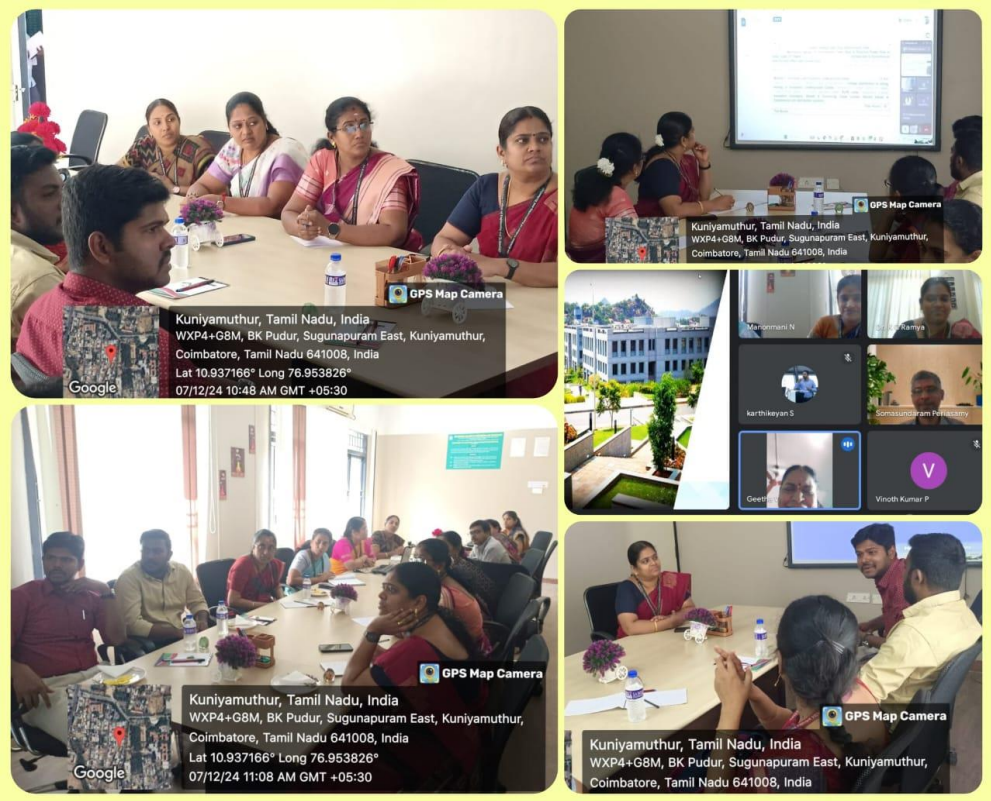
Resource Person 3: Ms. G.Mahalakshmi, Power Sysytem Engineer - Head Training Team, Power Projects, Chennai.
Topic: Renewable Energy Storage Solutions: Enhancing Energy System Stability

Session 3 Focus:
India's installed renewable energy capacity, Various resources of energy sectors, Maintaining stability in India's power system for efficient electric supply, Case study on Grid disturbance with power system studies simulation tools, Grid stability issues and simulation results.

Session 4
Time : 07.30 PM to 09.00 PM

Resource Person 4: Mr. V.Angappa, Proprietor, Megatech Scientific Instruments, Coimbatore.
Topic: Sustainable Land use and Agriculture for Climate Resilience
Session 4 Focus:
Global Agricultural Challenges, Vertical Farming Technologies, Power Management Technologies in Agriculture, Water Management Technologies and Hydrophonic System, Grow Light Technologies, IoT in Agriculture Management and Artificial applications, Sustainable Technologies and Innovations.

EEE | BOS MEETING



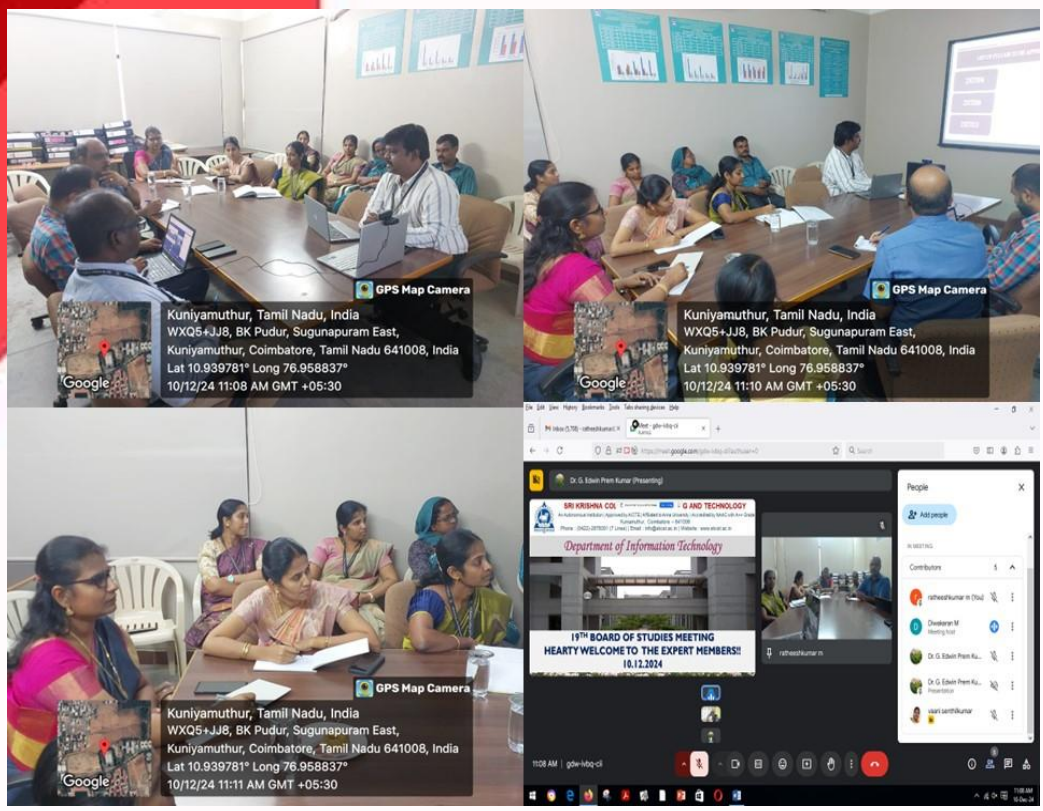
The Department of **Electrical and Electronics Engineering** organized the **19th Board of Studies (BoS) Meeting** on 07.12.2024. The meeting was convened to approve the R2022 curriculum for II, IV, and VI Semester Courses.

Dr. K.C.Ramya, Professor and Head of the Department of EEE, chaired the meeting. The following distinguished members participated in the deliberations:

- **Dr. V.Geetha,** Professor & Head, Department of EEE, Government College of Engineering, Salem - Anna University Nominee
- **Dr. P.Somasundaram,** Professor, Department of EEE, College of Engineering - Guindy Campus, Anna University, Chennai - Academic Expert
- **Dr. M.S.Sivagama Sundari,** Professor, Department of EEE, Amrita School of Engineering, Coimbatore - Academic Expert
- **Mr. A.Rajkumar,** Project Lead Manager, Automotive Embedded, TATA Technologies Limited, Coimbatore - Industry Expert
- **Mr. M.Shibi Chakaravarthy,** Project Head, Electrical Installations, Murugu Electrical Integrators, Coimbatore - Alumni Member

The board members provided valuable insights, significantly enriching the discussions and the proposed semester courses for the specified batches were collectively approved. The department cluster heads and senior faculty members also attended the meeting.

IT | BOARD OF STUDIES MEETING



Department of **Information Technology** conducted the Board of Studies meeting on 10th of December 2024 in the IT Conference Hall. The meeting was convened by the BoS Chairman, **Dr. M. Arunachalam**. The main agenda of the meeting was to approve the syllabi of core and elective courses of R2022, R2022(2023-2027 batch) and R2022(2024-2028 batch) of B.Tech IT.

BoS Members:

University Nominee

Dr. T. Sree Sharmila, Associate Professor, Department of CSE, CEG Campus, Anna University, Chennai

Academic Experts

1. Dr. V. Vani, Assistant Professor, Department of CSE, NIT Puducherry
2. Dr. M. Prathilothamai, Associate Professor, CSE, Amrita Vishwa Vidyapeetham, Coimbatore

Industry Expert

3. Mr. Vigneswaran Ganesh, Technical Lead | Architect, Cognizant Technology Solutions, Coimbatore

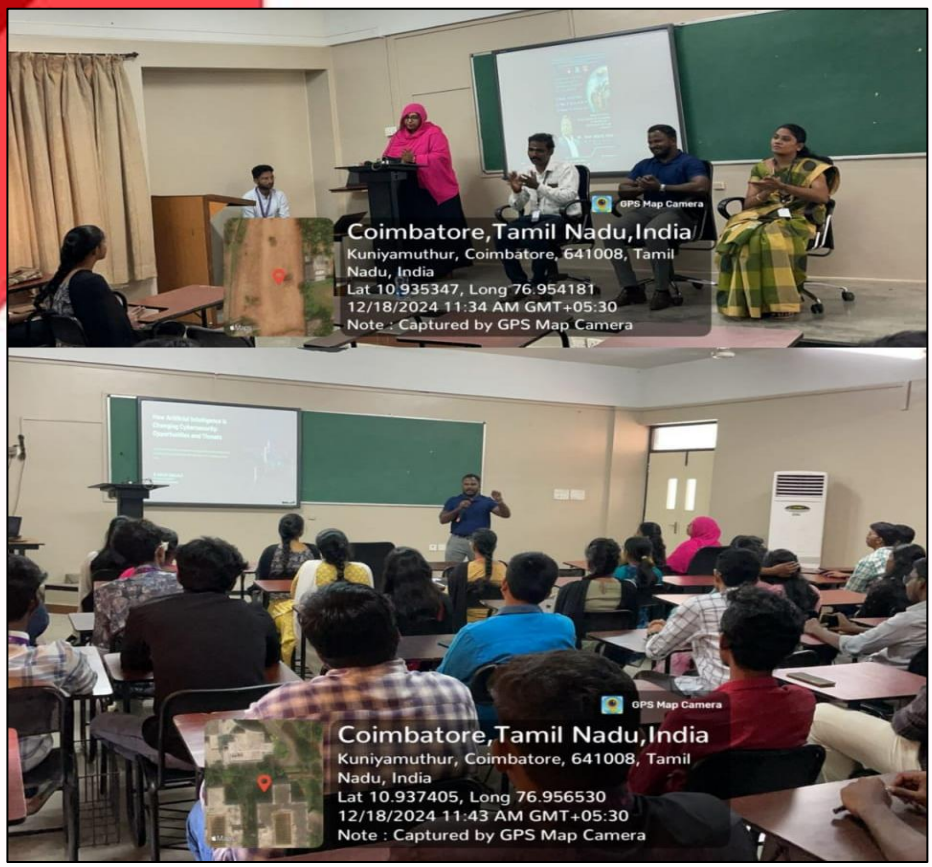
Alumni Expert

4. Mr. Pranesh Annamalai, Senior Manager – Wipro, Coimbatore

MCT | HoD INTERACTION

Dr. M. Lydia, HoD, **MCT** addressed the Second and Third MCT students for the Even Semester of 2024–2025 and provided information on academics, NPTEL exams, Hackathon participation, Workshops and Curriculum Vitae (CV) readiness. They were advised to work consistently with high level of commitment for a bright future.

CSY | INDUSTRIAL LECTURE SERIES



The Department of **Computer Science and Engineering (Cyber Security)** organized an Industrial lecture series on "**How Artificial Intelligence is changing Cyber Security: Opportunities and Threats"** for second year cyber security students on 18.12.2024 at CS Seminar Hall, CS block.

This Industrial lecture was led by **Mr. R. Arun Balaji, CEO, Yoi Robotics Laboratory, Coimbatore.**

Session Takeaways:

- Importance of AI and Cyber Security in chatbots and Automation industry
- Challenges such as deepfakes, narrative attacks, IOT attacks were discussed
- Concepts of malware, ransomware attacks and other cyber threats were discussed
- Changing dynamics and incorporation of AI in the field of cyber security was explained

The students actively interacted with the resource person and gained valuable insights about the fast-growing importance of AI in the field of cyber security.

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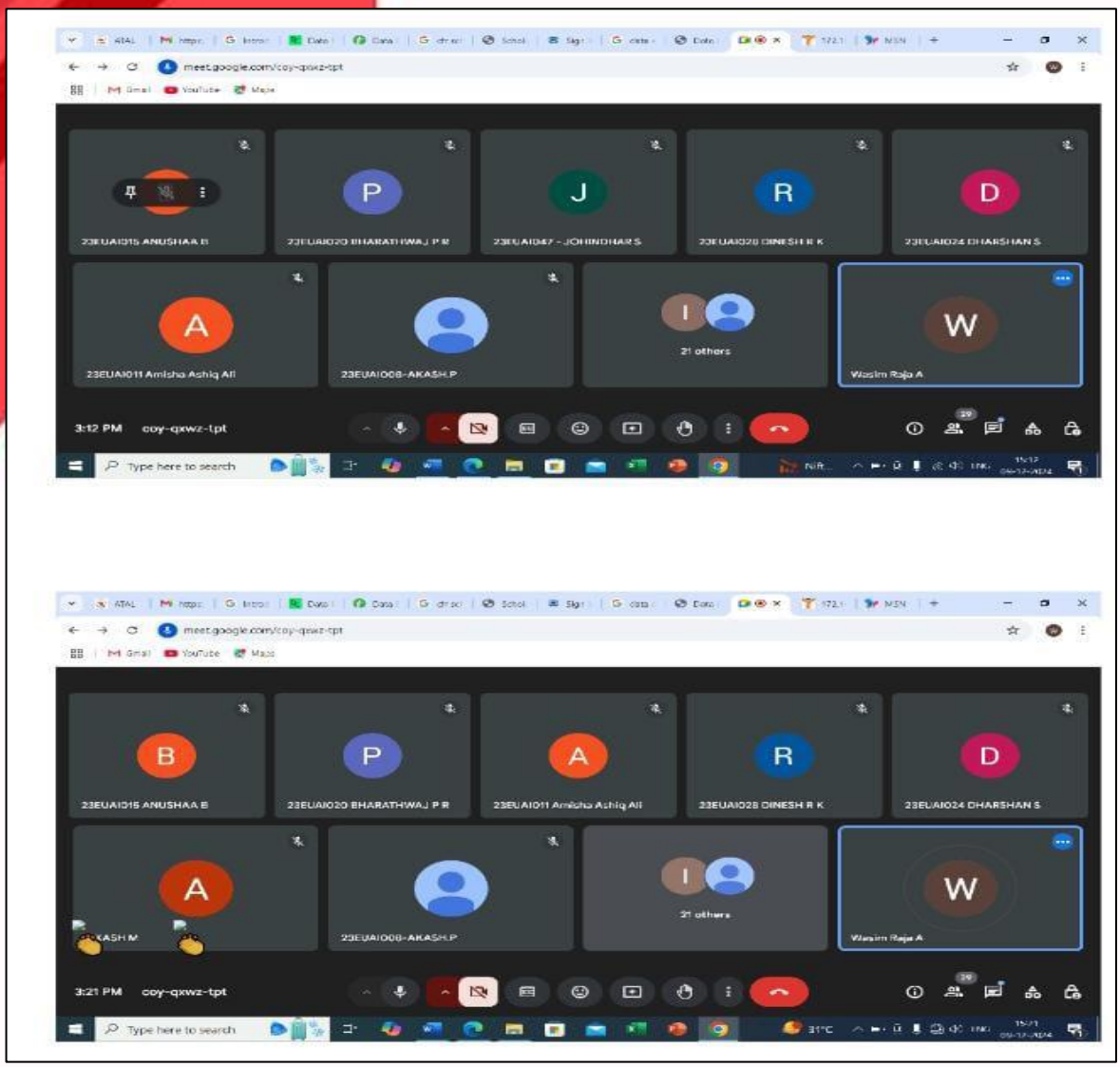
AI&DS | TUTOR WARD MEETING

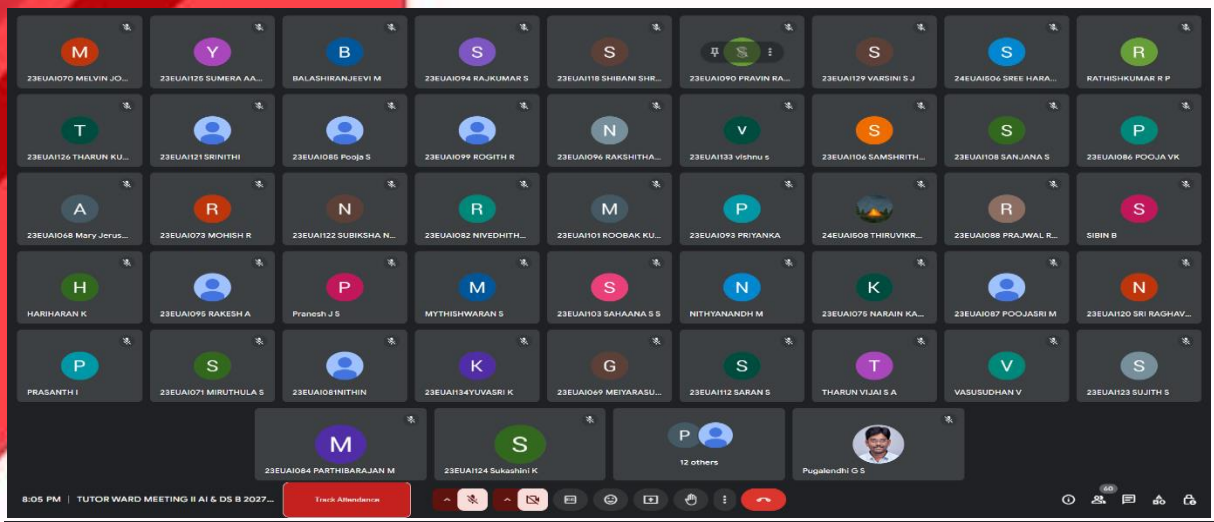


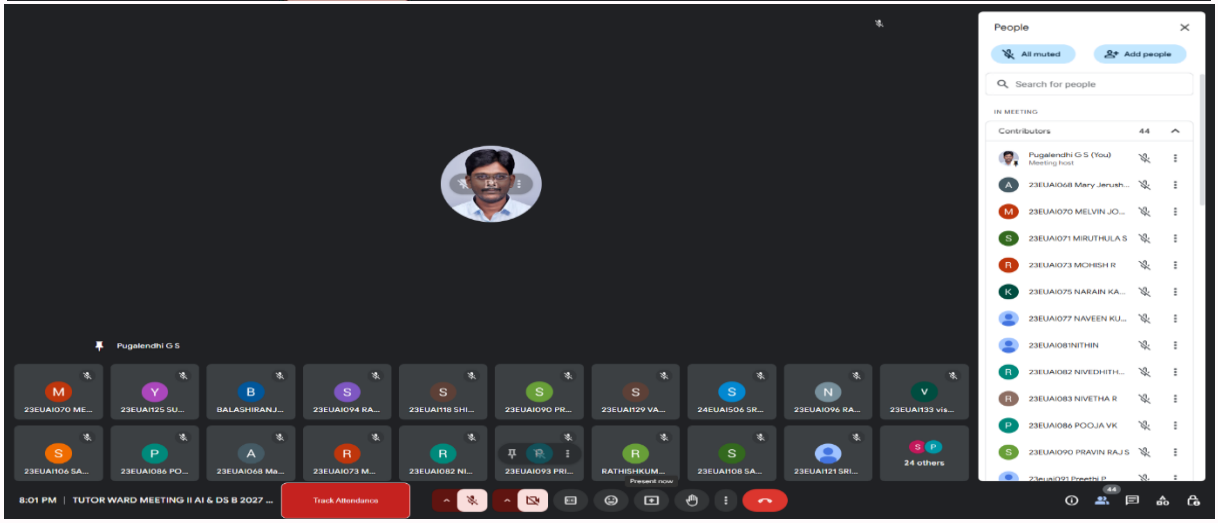
The First **Tutor Ward Meeting** (2024-24 Even Semester) for Second year **AI&DS** A was conducted by Mr.A.Wasim Raja, Assistant Professor, AI & DS on 09.12.2024 through Google meet.

Points Discussed:

1.Reopening date information
2.Dress code
3.Event Participations
4.Academic calendar
5.Subjects for even semester
6.Leave policy

AI&DS | TUTOR WARD MEETING



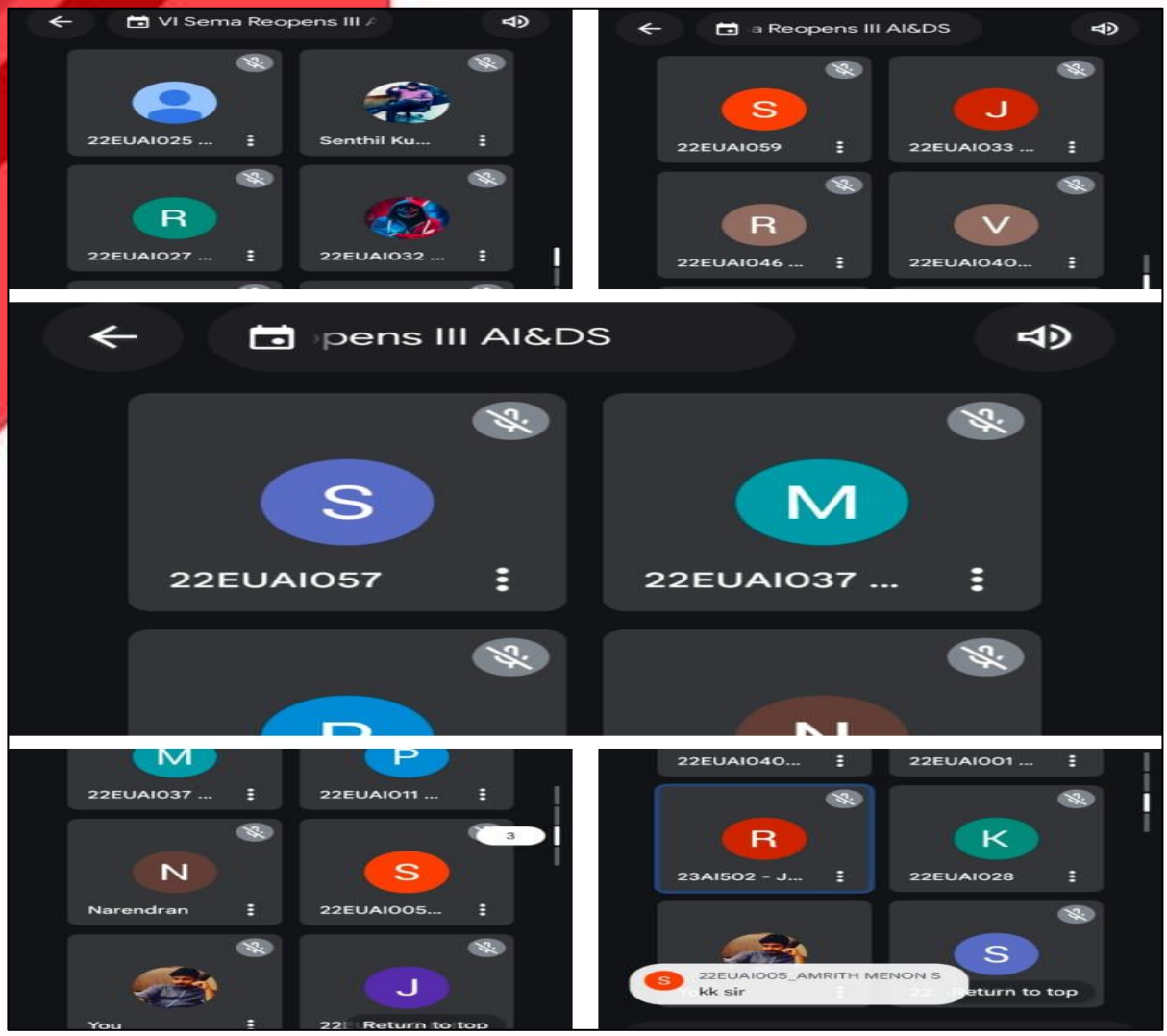


Tutor Ward Meeting (2024-2025 Even Semester) for Second year **AI&DS** B was conducted by Mr.G.S.Pugalendhi, Assistant Professor, AI & DS on 09.12.2024 through Google Meet.

Points Discussed:

- Information regarding the reopening date.
- Adherence to dress code guidelines.
- Encouragement and updates on event participation.
- Overview of the academic calendar.
- Subjects for the even semester.
- Guidelines for leave policies.
- Addressing disciplinary issues.
- Updates on the Placement Preparation Pod, weekend tests and its activities.

AI&DS | TUTOR WARD MEETING



The First Tutor Ward Meeting (2024-25 Even Semester) for Third year AI&DS was conducted by Mr.S.Senthil Kumar, Assistant Professor, AI & DS on 10.12.2024 through Google meet.

Points discussed:
1. Placement.
2. Problem of the Day.
3. Reopening date
4. dress code
5. Event Participations
6. Academic calendar
7. Subjects for even semester
8. Leave policy

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PLACEMENT TESTIMONIAL

I am Anuvarshini S from the Electronics and Communication Engineering department of the 2021–2025 batch. My journey at SKCET has been an incredible experience, providing me with numerous opportunities to enhance my skills and knowledge, which have been instrumental in shaping my career.

Expert sessions conducted by industry professionals gave me valuable insights into the latest technological trends, and the college's dedicated training programs for soft skills and personality development helped me prepare for placements with confidence. SKCET offers a vibrant platform to learn, grow, and showcase one's abilities.

I am extremely grateful to my parents for choosing SKCET and to the placement cell and faculty team for their continuous guidance and support throughout my placement journey. Their efforts have been pivotal in helping me secure a placement at **Psiog Digital**.

A heartfelt thanks to the Principal and the entire SKCET faculty team for their encouragement and assistance.

ANUVARSHINI S – ECE

Psiog Digital

PLACEMENT TESTIMONIAL

I am Vignesh N from Mechanical Department (2020-2024). I am expressing my heartfelt gratitude to Sri Krishna College of Engineering and Technology (SKCET) for the invaluable support and guidance I received throughout my academic journey and during the placement process. It is with great pleasure that I inform you that I have been placed at JSW as a GET. The comprehensive education and skill development opportunities provided by SKCET have played a pivotal role in preparing me for this significant milestone. The dedication and expertise of the faculty, along with the resources and infrastructure available, have equipped me with the knowledge and confidence needed to succeed in my career.

I would like to extend my special thanks to the Placement Cell for their unwavering support, organizing numerous workshops, mock interviews, and placement drives that were instrumental in securing this opportunity.

VIGNESH N – MECH

JSW

EEE | PLACEMENT TESTIMONIAL

I am Jeya Shri K, a student of Electrical and Electronics Engineering of batch 2021-2025, at SKCET. My time at SKCET has been nothing short of transformative, both academically and personally. The institution not only provided me with in-depth knowledge in my field but also nurtured my overall growth, helping me become a better-rounded individual. The engaging lectures, practical hands-on experiences, and insightful discussions have pushed me to expand my boundaries and continuously strive for excellence. SKCET has given me the confidence and skills to excel in my chosen career path, while also igniting a passion for lifelong learning and a dedication to making a meaningful impact on the world. I am proud to be a part of this dynamic and vibrant community. I am immensely grateful to the Head of the Department, Dr. K.C. Ramya, year coordinator, faculty members of the EEE department, for their unwavering support and the opportunities they have provided.

Jeya Shri K
EEE
Vaag Systems
Accenture

EEE | PLACEMENT TESTIMONIAL

Sri Krishna College of Engineering and Technology has been a transformative place for my growth and learning. As an Electrical Engineering student, my time at SKCET was filled with opportunities to gain knowledge, develop technical skills, and build meaningful connections. The faculty and the Training & Placement Cell were instrumental in my journey, providing consistent support and guidance to sharpen my abilities and prepare me for the real-world challenges.

I am extremely grateful to the Placement Cell for creating a platform that helped me enhance my skills and showcase them to prospective employers. Their dedication and rigorous training ensured I was ready to step into the professional world. It is because of their efforts that I got selected in Sobha Constructions, a company I am proud to join. The technical expertise and practical learning experiences I gained at SKCET have been invaluable in achieving this milestone.

I am immensely grateful to the Head of the Department, Dr. K.C. Ramya, year coordinator, faculty members of the EEE department, for their unwavering support and the opportunities they have provided.

KARISHMA R
EEE
SOBHA CONSTRUCTIONS

SKCET | CYBERSECURITY UNIVERSITY ACADEMY PROGRAM - LAUNCH AND MOU EXCHANGE EVENT

We are super excited to share that SKCET has launched Cyber security University academy program and MoU exchange on 17.12.24 at SKCET Convention center to make students Industry ready.

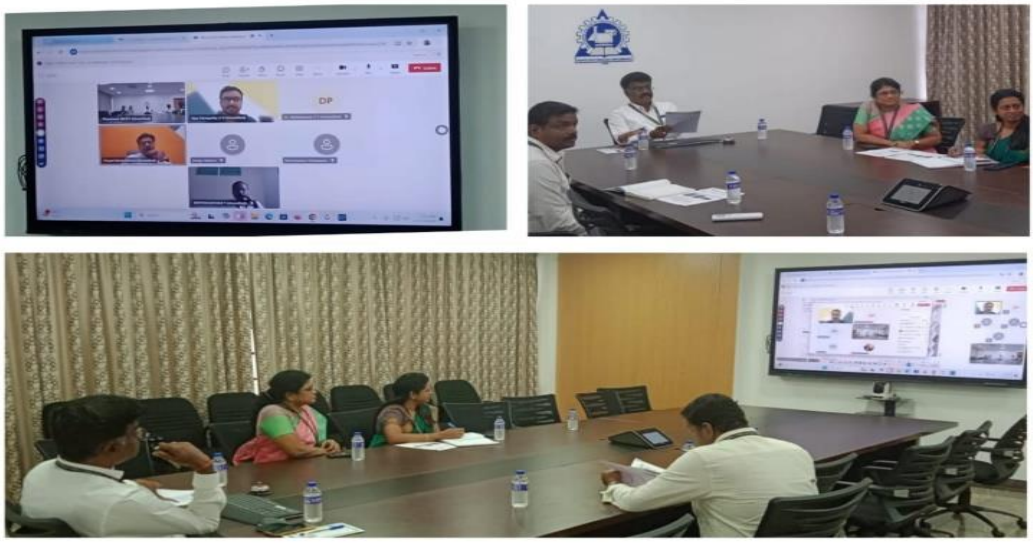
Dr.K.Porkumaran, Principal welcomed the Chief Guest Mr.Mario David, JP Morgan Chase & Co, Dr. Giridharan, CEO Career TiQ.

Also emphasized the importance of niche technology courses like AI, ML, Data Science, GenAI & Cybersecurity offered at SKCET Campus to make students Industry ready from Day

Key highlights:

- Importance of Cyber security Course certification for students, Companies offering Cyber security profile for fresh graduates, Overview of Cybersecurity in JP Morgan Chase & Co, Exploring latest trends and innovative in Cybersecurity, Create a safer & more secure digital world with young minds.

SKCET | MIPHI EMPOWERING AI EDUCATION



Principal Dr.Porkumaran, **Dean Placement Dr.Jayasudha Subburaj**, along with SKCET AI&DS team interacted through Video Conferencing with **Mr.Prasad Balakrishnan,** Chief Operating Officer, MiPhi Semicon India Pvt Ltd, Bengaluru, India and his team about Empowering AI Education Advanced AI Lab Model Training

Key points discussed

- Establish an AI lab to meet the needs of its students.
- Empowering students to unlock their futures with industry oriented artificial intelligence education and skills.
- An in-house AI training lab at Sri Krishna colleges will equip students with hands-on experience on industry standard AI applications.
- Bridging the gap between theory and practical applications, in turn enhances their employability in the AI and machine learning space.
- Crafting the syllabus to enable colleges adopt AI learning quickly and most importantly effectively with high innovation.

SKCET | PEGA SCRUM SESSION

Talentsprint organized Scrum session for all PEGA certified students. 2025 batch PEGA students enthusiastically participated and acted as the Product Owner and the key stakeholders. All the students' team during the Sprint presented their project to the resource person **Mr.Arun Divakaran,** Scrum Master, Talentsprint.

PLACEMENT TESTIMONIAL

I am **SANTHOSHKUMAR V** from the Electrical and Electronics Engineering department, batch 2021–2025, and I am proud to reflect on my enriching journey at SKCET. The college has been a platform of endless opportunities, enabling me to build both technical and interpersonal skills crucial for my career. Regular hands-on workshops and industrial visits provided exposure to real-world practices, bridging the gap between academics and industry. I am especially thankful for the industrial training sessions, which offered valuable insights into emerging technologies and their practical applications. I am particularly grateful for the pre placement training programs that enhanced my confidence and refined my skills for interviews. The constant motivation from faculty and the state-of-the-art infrastructure have been instrumental in my development. My heartfelt thanks to the placement cell for their unwavering support, which helped me secure a placement at ERNST&YOUNG. The nurturing environment at SKCET has truly been a cornerstone of my success, and I am deeply thankful to my parents, faculty, and friends for being part of this memorable journey.

SANTHOSHKUMAR V - EEE,
ERNST&YOUNG

SKCET | TESTIMONIAL BY PLACED STUDENTS

I am **Gokul Kumar S** from the Computer Science and Engineering department, batch 2021-2025. My journey at SKCET has been incredibly enriching, providing me with numerous opportunities to enhance my skills and grow as a professional. The expert sessions by industry professionals gave me insights into the latest trends in technology and innovation. Additionally, the training sessions focused on improving soft skills and personality development proved invaluable during the Blue Yonder selection process.

The college has always been a platform to learn, explore, and showcase my talents. I am immensely grateful to the placement cell and faculty team for their constant guidance and support throughout my internship journey. Their efforts helped me secure an internship at Blue Yonder, and I am confident that the skills and knowledge I gained here will continue to shape my career.

A special thanks to the Principal and the entire faculty team for their encouragement and support.

GOKUL KUMAR S – CSE
BLUE YONDER

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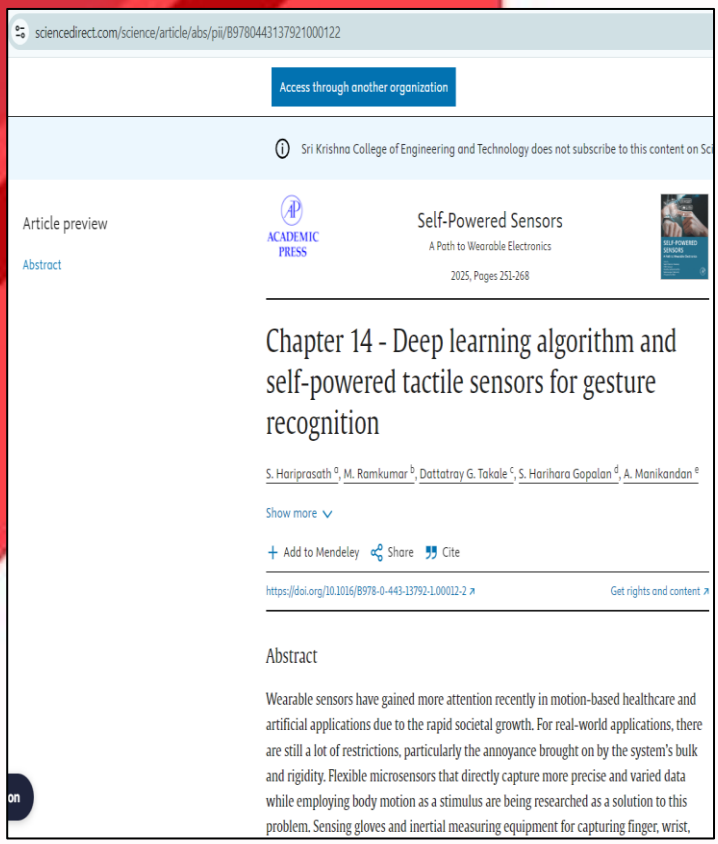
R&D | BOOK CHAPTER PUBLICATION | ECE

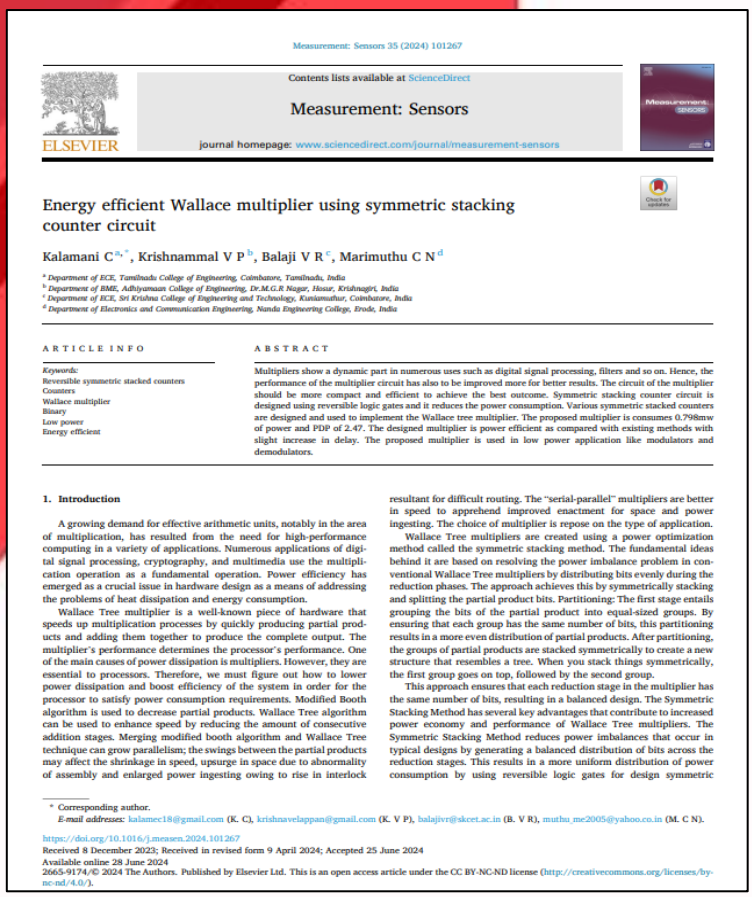


Dr.M.Ramkumar, Associate Professor , **ECE** Department has published a Book Chapter titled **"Deep learning algorithm and self-powered tactile sensors for gesture recognition"** in Self-Powered Sensors - A Path to Wearable Electronics which was published by Elsevier. ISBN: 978-0-443-13792-1.

R&D | BOOK CHAPTER PUBLICATION | EEE

Ms.G.Mahalakshmi, Assistant Professor, **Dr.J.Karthika** and **Dr.A.Radhika,** Professor **EEE** Department have published a book chapter entitled on **"Semi-Automated Wheelchair/ Stretcher with GPS for Hospital Mobility"** by LAMBERT Academic Publishing **ISBN:** 978-620-2-06079-0.

R&D | PAPER PUBLICATION | ECE



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Measurement: Sensors

journal homepage: www.sciencedirect.com/journal/measurement-sensors

Energy efficient Wallace multiplier using symmetric stacking counter circuit

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[b] Department of BME, Adhiyamaan College of Engineering, Dr.M.G.R Nagar, Hosur, Krishnagiri, India
[c] Department of ECE, Sri Krishna College of Engineering and Technology, Kuniamuthur, Coimbatore, India
[d] Department of Electronics and Communication Engineering, Nanda Engineering College, Erode, India

ARTICLE INFO

Keywords:
Reversible symmetric stacked counters
Counters
Wallace multiplier
Binary
Low power
Energy efficient

ABSTRACT

Multipliers show a dynamic part in numerous uses such as digital signal processing, filters and so on. Hence, the performance of the multiplier circuit has also to be improved more for better results. The circuit of the multiplier should be more compact and efficient to achieve the best outcome. Symmetric stacking counter circuit is designed using reversible logic gates and it reduces the power consumption. Various symmetric stacked counters are designed and used to implement the Wallace tree multiplier. The proposed multiplier is consumes 0.798mw of power and PDP of 2.47. The designed multiplier is power efficient as compared with existing methods with slight increase in delay. The proposed multiplier is used in low power application like modulators and demodulators.

1. Introduction

A growing demand for effective arithmetic units, notably in the area of multiplication, has resulted from the need for high-performance computing in a variety of applications. Numerous applications of digital signal processing, cryptography, and multimedia use the multiplication operation as a fundamental operation. Power efficiency has emerged as a crucial issue in hardware design as a means of addressing the problems of heat dissipation and energy consumption.

Wallace Tree multiplier is a well-known piece of hardware that speeds up multiplication processes by quickly producing partial products and adding them together to produce the complete output. The multiplier's performance determines the processor's performance. One of the main causes of power dissipation is multipliers. However, they are essential to processors. Therefore, we must figure out how to lower power dissipation and boost efficiency of the system in order for the processor to satisfy power consumption requirements. Modified Booth algorithm is used to decrease partial products. Wallace Tree algorithm can be used to enhance speed by reducing the amount of consecutive addition stages. Merging modified booth algorithm and Wallace Tree technique can grow parallelism; the swings between the partial products may affect the shrinkage in speed, upsurge in space due to abnormality of assembly and enlarged power ingesting owing to rise in interlock resultant for difficult routing. The "serial-parallel" multipliers are better in speed to apprehend improved enactment for space and power ingesting. The choice of multiplier is repose on the type of application.

Wallace Tree multipliers are created using a power optimization method called the symmetric stacking method. The fundamental ideas behind it are based on resolving the power imbalance problem in conventional Wallace Tree multipliers by distributing bits evenly during the reduction phases. The approach achieves this by symmetrically stacking and splitting the partial product bits. Partitioning: The first stage entails grouping the bits of the partial product into equal-sized groups. By ensuring that each group has the same number of bits, this partitioning results in a more even distribution of partial products. After partitioning, the groups of partial products are stacked symmetrically to create a new structure that resembles a tree. When you stack things symmetrically, the first group goes on top, followed by the second group.

This approach ensures that each reduction stage in the multiplier has the same number of bits, resulting in a balanced design. The Symmetric Stacking Method has several key advantages that contribute to increased power economy and performance of Wallace Tree multipliers. The Symmetric Stacking Method reduces power imbalances that occur in typical designs by generating a balanced distribution of bits across the reduction stages. This results in a more uniform distribution of power consumption by using reversible logic gates for design symmetric

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Dr.V.R.Balaji, Professor, Department of **ECE**, has published SCI and Scopus indexed Journal titled **"Energy efficient Wallace multiplier using symmetric stacking counter circuit"** in the Journal, Measurement: Sensors. DoI: https://doi.org/10.1016/j.measen.2024.101267.

R&D | PAPER PUBLICATION | EEE

Dr.J.Karthika, Professor, Department of **EEE** has published a paper entitled on **"AI-Based Smart Vehicle Parking System"** in SAE International Journal. It is indexed in Scopus journal.

Downloaded from SAE International by Syed M, Friday, December 13, 2024

2024-01-5242 Published 10 Dec 2024

AI-Based Smart Vehicle Parking System

M. Syed Atheef, K. Sham Sundar, P. P. Prem Kumar, and J. Karthika Sri Krishna College of Engineering and Technology

Citation: Atheef, M.S., Sundar, K.S., Kumar, P.P.P., and Karthika, J., "AI-Based Smart Vehicle Parking System," SAE Technical Paper 2024-01-5242, 2024, doi:10.4271/2024-01-5242.

Received: 24 Jul 2024 Revised: 25 Sep 2024 Accepted: 25 Oct 2024

Abstract

This project presents the development of an advanced Autonomous Mobile Robot (AMR) designed to autonomously lift and maneuver four-wheel drive vehicles into parking spaces without human intervention. By leveraging cutting-edge camera and sensor technologies, the AMR integrates LiDAR for precise distance measurements and obstacle detection, high-resolution cameras for capturing detailed images of the parking environment, and object recognition algorithms for accurately identifying and selecting available parking spaces. These integrated technologies enable the AMR to navigate complex parking lots, optimize space utilization, and provide seamless automated parking. The AMR autonomously detects free parking spaces, lifts the vehicle, and parks it with high precision, making the entire parking process autonomous and highly efficient. This project pushes the boundaries of autonomous vehicle technology, aiming to contribute significantly to smarter and more efficient urban mobility systems.

Keywords

Autonomous Mobile Robot, Smart Parking System, LiDAR, Object Recognition, Urban Mobility, Autonomous Vehicles

Introduction

Urbanization has led to significant growth in the number of vehicles on the road, creating substantial challenges in urban mobility, especially regarding parking. Traditional parking systems often require human intervention, are time-consuming, and lead to inefficient use of space. These inefficiencies contribute to increased traffic congestion, pollution, and driver frustration [1]. To address these issues, advancements in technology have paved the way for more sophisticated solutions, including the integration of artificial intelligence (AI) and robotics in transportation systems.

The concept of smart parking systems has emerged as a promising solution to optimize parking space utilization and streamline the parking process. Smart parking systems leverage various technologies, such as sensors, cameras, and data analytics, to provide real-time information about available parking spaces, thus reducing the time drivers spend searching for parking [2]. However, the next frontier in this field is the development of fully autonomous systems capable of managing the entire parking process without human intervention.

Conventional smart parking systems monitor parking spaces and give real-time availability information by utilizing a variety of technologies, including IoT sensors, mobile applications, and data analytics (Litman, 2020). Although drivers spend less time seeking for parking spaces and more time locating them thanks to these devices, their automation is still limited and they still need human interaction. For instance, a lot of the current solutions are devoid of autonomous car parking capabilities and just utilize occupancy sensors (Yuen et al., 2018). While ParkMe and ParkWhiz are examples of systems that mostly direct users to available spaces, parking is still done by humans.

In contrast, the AI-based Autonomous Smart Vehicle Parking System proposed in this paper introduces a fully autonomous approach to parking. The system goes beyond simply identifying available spaces by autonomously maneuvering vehicles into parking spots without human assistance. By integrating advanced technologies such as LiDAR for accurate distance measurement, high-resolution cameras for environmental perception, and sophisticated AI algorithms for object recognition and decision-making, this system provides an end-to-end parking solution. These advancements enable the system to not only detect available parking spaces but also navigate complex parking lots and park vehicles

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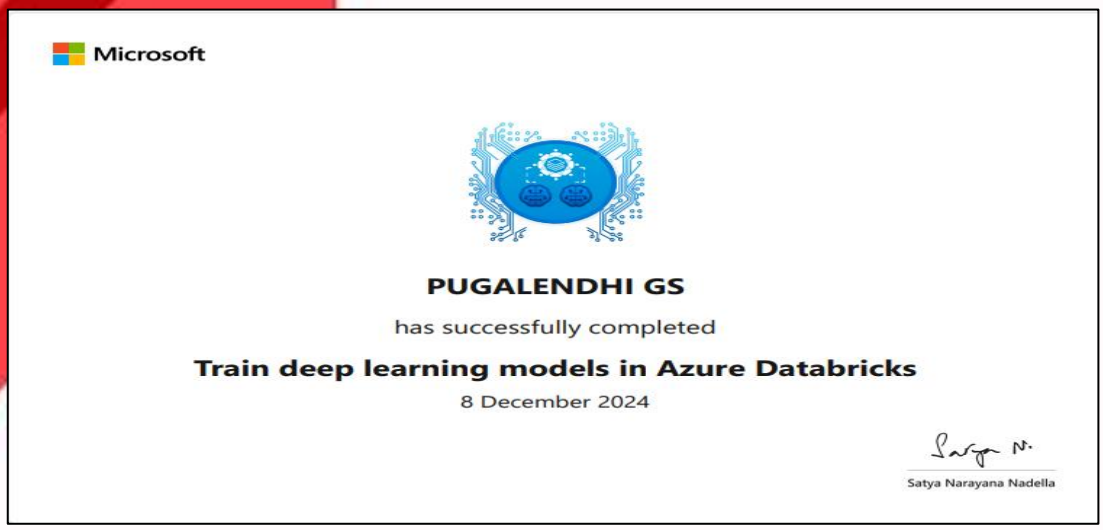
AI&DS | MICROSOFT CERTIFICATION

Mr.S.Senthil Kumar, Assistant Professor of **AI&DS** has successfully completed course titled "**Embrace responsible AI principles and practices**" offered by **Microsoft** on **02.12.2024**.

ECE | INFOSYS CERTIFICATION

Ms N Nanthini, Assistant Professor of Department of **ECE** have received completion certificate for the course **"Basics of Python"** from Infosys Springboard.

AI&DS | MICROSOFT CERTIFICATION



Mr.G.S.Pugalendhi, Assistant Professor of **AI&DS** has successfully completed course titled **"Train deep learning models in Azure Databricks"** offered by **Microsoft** on **08.12.2024**.

MCT | FDP CERTIFICATION

Dr. S Dinesh, Assistant Professor of **MCT**, has successfully participated & completed AICTE Training and Learning (ATAL) Academy Faculty Development Program on **"Recent Advancements in Electric Vehicles and Hydrogen Fuel Cell Vehicles"** at RVS TECHNICAL CAMPUS-COIMBATORE from 08/11/2024 to 14/11/2024.

CIVIL | FDP CERTIFICATION

NITTTRK/CE/MoU/2024-25/019

Diamond Jubilee Year

Certificate

This is to certify that **Dr. R Chandra Devi** has completed a Training Programme Successfully on **DEEP FOUNDATION TESTING -INTEGRITY ASSESSMENT** organized by the National Institute of Technical Teachers' Training and Research, Kolkata & Sarathy Geotech and Engineering Services Pvt Ltd On **18th November 2024.**

Prof. Naveen B.P. Coordinator | Prof. Gayadhar Panda Dean Faculty and Academic Affairs | Dr. CR Parthasarathy Founder & MD, SGES Pvt Ltd | Prof. Debi Prasad Mishra Director

Dr. R. Chandra Devi, Associate Professor, Department of **Civil** Engineering has completed a training program on Deep Foundation testing – Integrity assessment organized by National Institute of Technical Teachers Training and Research, Kolkata and Sarathy Geotech and Engineering Services Pvt Ltd, on 18th November 2024.

SOM | AICTE TRAINING AND LEARNING (ATAL) FDP

Dr.V. Ramadevi, Associate Professor**, SOM** has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Sustainable Energy Solutions For Achieving The SDGS: A Policy And Management Perspective at Sri Ramakrishna College of Arts And Science from 18/11/2024 to 23/11/2024.

ATAL/2024/1731908999

Skill India | ATAL | AICTE

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Nelson Mandela Marg, Vasant Kunj, New Delhi -110070

AICTE Training and Learning (ATAL) Academy

Certificate

It is certified that Dr. V. RAMADEVI, Faculty members of the AICTE approved institutions of SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY, COIMBATORE has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on SUSTAINABLE ENERGY SOLUTIONS FOR ACHIEVING THE SDGS: A POLICY AND MANAGEMENT PERSPECTIVE at SRI RAMAKRISHNA COLLEGE OF ARTS AND SCIENCE from 18/11/2024 to 23/11/2024.

D Divya
Assistant Professor Level (AICTE Institute), Coordinator
SRI RAMAKRISHNA COLLEGE OF ARTS AND SCIENCE

Dr. Sunil Luthra
Director & Bureau Head
Training and Learning Bureau, AICTE

SOM | INTERNATIONAL CONFERENCE

Dr. R. Suyam Praba, Associate Professor**, SOM** has successfully participated & presented a paper on **"Transforming Marketing with Real time Data and Analytics"** in **National Level Conference** on "Digital Agility – A peep into the future" at RVS Institute of Management Studies on 8th November 2024.

RVS INSTITUTE OF MANAGEMENT STUDIES
(Approved by AICTE, New Delhi & Permanently Affiliated to Anna University, Chennai)
Kumaran Kottam Campus, Trichy Road, Kannampalayam, Coimbatore - 641 402.

Certificate

This is to certify that Dr SUYAM PRABA R, ASSOCIATE PROFESSOR from Sri KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY has Presented a paper on TRANSFORMING MARKETING WITH REAL-TIME DATA AND ANALYTICS in the National Conference on **"Digital Agility – A Peep into the Future"** organized by RVS Institute ofManagement Studies, Kumaran Kottam Campus, Coimbatore on 8th November 2024.

HOD DIRECTOR

SOM | INTERNATIONAL CONFERENCE

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It is certified that Mr. PUGALENDHI GS, Assistant Professor of SRI KRISHNA COLLEGE OF ENGINEERING and TECHNOLOGY has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on RECENT TRENDS IN DEEP LEARNING & LARGE LANGUAGE MODELS at DELHI TECHNICAL CAMPUS from 02/12/2024 to 07/12/2024.

Krishna Kant Singh
Professor Level (AICTE Institute), Coordinator
DELHI TECHNICAL CAMPUS

Dr. Sunil Luthra
Director & Bureau Head
Training and Learning Bureau, AICTE

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Certificate

It is certified that Mr. WASIMRAJA A, Assistant Professor of KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on RECENT TRENDS IN DEEP LEARNING & LARGE LANGUAGE MODELS at DELHI TECHNICAL CAMPUS from 02/12/2024 to 07/12/2024.

Krishna Kant Singh
Professor Level (AICTE Institute), Coordinator
DELHI TECHNICAL CAMPUS

Dr. Sunil Luthra
Director & Bureau Head
Training and Learning Bureau, AICTE

Mr.Pugalendhi G S and **Mr.Wasim Raja A,** Assistant Professors of **AI&DS** has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on **"Recent Trends In Deep Learning & Large Language Models"** at **Delhi Technical Campus** from **02/12/2024** to **07/12/2024.**

ECE | WORKSHOP PARTICIPATION

भारतीय सुदूर संवेदन संस्थान/ INDIAN INSTITUTE OF REMOTE SENSING
भारतीय अंतरिक्ष अनुसंधान संगठन/ INDIAN SPACE RESEARCH ORGANISATION
अंतरिक्ष विभाग, भारत सरकार/ DEPARTMENT OF SPACE, GOVERNMENT OF INDIA

OFF - CAMPUS OUTREACH CERTIFICATE PROGRAMME

COR202410411653

समन्वय का प्रमाणपत्र
CERTIFICATE OF COORDINATION

यह प्रमाणित किया जाता है कि श्री कृष्णा कॉलेज ऑफ इंजीनियरिंग एंड टेक्नोलॉजी कार्यरत डॉ॰ वी आर बालाजी ने ग्राम-स्तरीय फसल मूल्यांकन के लिए अंतरिक्ष आधारित सहयोग विषय पर इस संस्थान द्वारा दिनांक 2024-10-28 को आयोजित एक दिवसीय ऑनलाइन कार्यशाला को समन्वित किया।

This is to certify that DR. V.R.BALAJI, working with Sri Krishna College of Engineering and Technology, has coordinated one day online workshop on Space based inputs for Village level crop assessment conducted by this institute on October 28, 2024

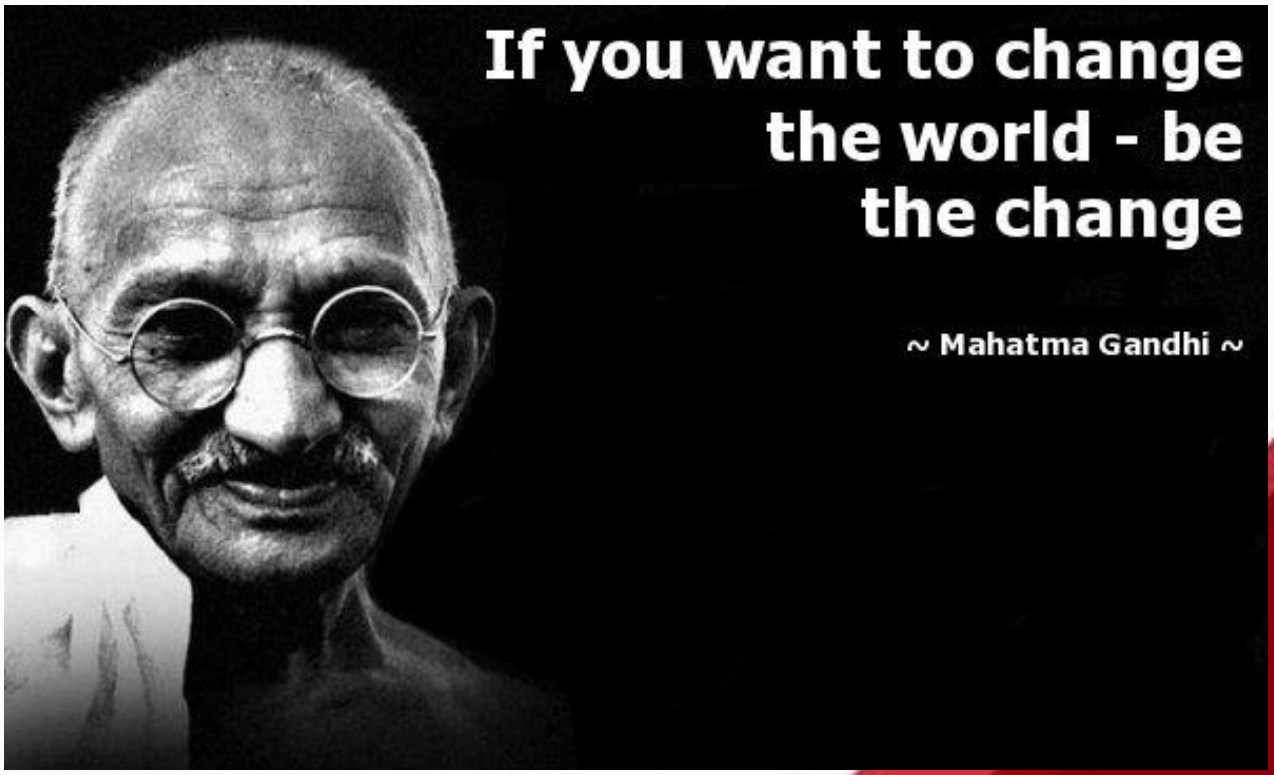
दिनांक/ Date: 27-11-2024
देहरादून/ Dehradun

प्रमुख,
जियोवेब सर्विसेस, सूचना प्रौद्योगिकी एवं दूरस्थ अधिगम विभाग
Head, Geoweb Services, IT & Distance Learning Department, IIRS

समूह प्रमुख,
भू-स्थानिक प्रौद्योगिकी एवं आउटरीच कार्यक्रम समूह
Group Head, Geospatial Technologies & Outreach Programme Group, IIRS

Dr V R Balaji, Professor department of **ECE** has successfully completed and coordinated one day online workshop on **"Space based Inputs for village level crop assessment"** by IIRS on 28.10.2024.

LEGENDARY INSIGHTS



EEE | ATAL - FACULTY DEVELOPMENT PROGRAM

ATAL/2024/1731929467

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AICTE Training and Learning (ATAL) Academy

Certificate

It is certified that Mrs. G MAHALAKSHMI, Assistant Professor of Sri Krishna College of Engineering and technology has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Next Generation Smart Grids for Sustainable Power Systems: The Path from Industry 4.0 to 5.0 at SRI KRISHNA COLLEGE OF TECHNOLOGY from 02/12/2024 to 07/12/2024.

Jaisiva S
Associate Professor Level (AICTE Institute), Coordinator
SRI KRISHNA COLLEGE OF TECHNOLOGY

Dr. Sunil Luthra
Director & Bureau Head
Training and Learning Bureau, AICTE

ATAL/2024/1731989714

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AICTE Training and Learning (ATAL) Academy

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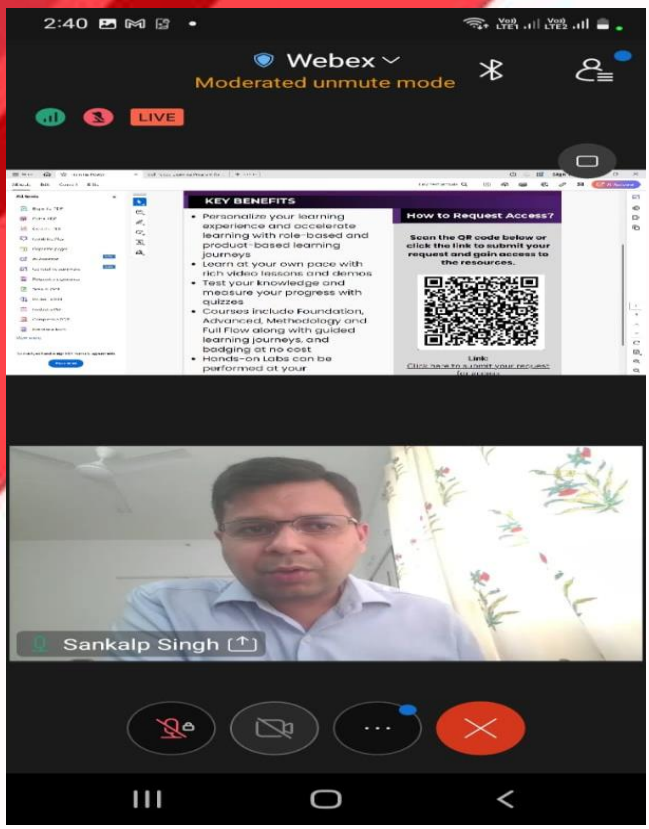
It is certified that Mr. Bagavathy S, Assistant Professor of SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Next Generation Smart Grids for Sustainable Power Systems: The Path from Industry 4.0 to 5.0 at SRI KRISHNA COLLEGE OF TECHNOLOGY from 02/12/2024 to 07/12/2024.

Jaisiva S
Associate Professor Level (AICTE Institute), Coordinator
SRI KRISHNA COLLEGE OF TECHNOLOGY

Dr. Sunil Luthra
Director & Bureau Head
Training and Learning Bureau, AICTE

Mrs.G.Mahalakshmi, Mr.S.Bagavathy, Assistant Professors, **EEE** Department have participated in ATAL Faculty Development Program on "**Next Generation Smart Grids for Sustainable Power Systems: The Path from Industry 4.0 to 5.0"** at Sri Krishna College of Technology, Coimbatore from 02-12-2024 to 07-12-2024.

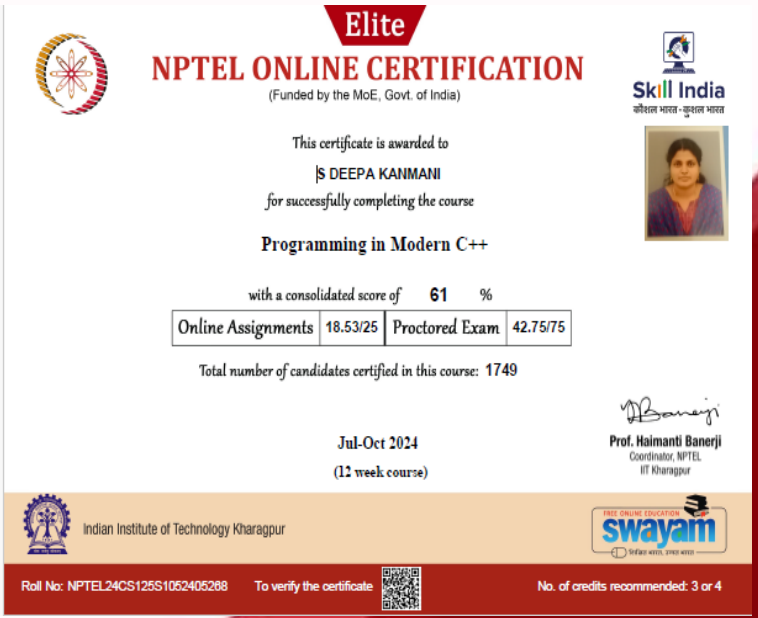
EEE | WEBINAR ON VLSI & IC DESIGN



Dr.J.Karthika, Professor and **Dr.K.Muthukumar,** Associate Professor **EEE** Department have participated in a Webinar on "**VLSI & IC Design**: EDA Tool Support available under the Design Linked Incentive (DLI) Scheme and Chips to Start-up (C2S) Programme" on 13th December, 2024. The webinar has been graced and addressed by Prof. T.G. Sitharam, Hon'ble Chairman, AICTE along with Senior Officers from MeitY.

IT | NPTEL CERTIFICATION

Dr. S. Deepa Kanmani, Associate Professor - **IT** has successfully completed the 12 week course on **"Programming in Modern C++"** with Elite Grade certified by Swayam NPTEL.



MECH | FACULTY DEVELOPMENT PROGRAM

Certificate No: ICT-19698/24

National Institute of Technical Teachers Training and Research
Chandigarh
MINISTRY OF EDUCATION, GOVERNMENT OF INDIA

Certificate

This is to certify that

DR.S.KARTHIK

SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY, COIMBATORE TAMIL NADU

Participated in the AICTE Recognized Faculty Development Programme

on

IOT Application for SDGs and Sustainable Rural Development

Conducted by

Rural Development Department

from

18/11/2024 to 22/11/2024 (One Week)

at

Sri Krishna College of Engineering and Technology, Coimbatore, TamilNadu

Coordinator Director

Certificate No: ICT-19716/24

National Institute of Technical Teachers Training and Research
Chandigarh
MINISTRY OF EDUCATION, GOVERNMENT OF INDIA

Certificate

This is to certify that

VIGNESHKUMAR M

SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY, COIMBATORE TAMIL NADU

Participated in the AICTE Recognized Faculty Development Programme

on

AI for SDGs under Unnat Bharat Abhiyaan

Conducted by

Rural Development Department

from

18/11/2024 to 22/11/2024 (One Week)

at

NITTTR, Chandigarh

Coordinator Director

Dr.S.Karthik and **Dr.M.Vigneshkumar,** Assistant Professors, **Mechanical Engineering** participated in the AICTE recognized Faculty Development Programme on IOT Application for SDGs and Sustainable Rural Development Conducted by Rural Development Department from 18/11/2024 to 22/11/2024 (One Week) at Sri Krishna College of Engineering and Technology, Coimbatore, Tamil Nadu.

MECH | FACULTY DEVELOPMENT PROGRAM

Dr. Samson Jerold Samuel, Associate Professor, **Mechanical Engineering** has successfully participated & completed AICTE Training and Learning (ATAL) Academy Faculty Development Program on Advanced Functional Materials: Fabrication, Characterization and Applications at Mepco Schlenk Engineering College, Sivakasi from 02/12/2024 to 07/12/2024.

ATAL/2024/1732773859

Skill India

ATAL

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Nelson Mandela Marg, Vasant Kunj, New Delhi -110070

AICTE Training and Learning (ATAL) Academy

Certificate

It is certified that Dr. SAMSON JEROLD SAMUEL C, Associate Professor of Sri Krishna College of Engineering and Technology has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Advanced Functional Materials: Fabrication, Characterization and Applications at Mepco Schlenk Engineering College, Sivakasi from 02/12/2024 to 07/12/2024.

N.Selvakumar
Professor Level (AICTE Institute), Coordinator
Mepco Schlenk Engineering College, Sivakasi

Dr. Sunil Luthra
Director & Bureau Head
Training and Learning Bureau, AICTE

CSE | NPTEL ONLINE CERTIFICATION

Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

Skill India

This certificate is awarded to

DR G VIJAYA

for successfully completing the course

Introduction to Machine Learning

with a consolidated score of 60 %

Online Assignments	23.75/25	Proctored Exam	36.21/75

Total number of candidates certified in this course: 6812

Jul-Sep 2024

(8 week course)

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur

Indian Institute of Technology Kharagpur

swayam

Roll No: NPTEL24CS81S333400694 To verify the certificate No. of credits recommended: 2 or 3

Dr.Vijaya G, Associate Professor, Computer Science and Engineering has been awarded for successfully completing the course **"Introduction to Machine Learning"** with a consolidated score of 60% from July-Sep 2024(8 week course).

MCT | FACULTY CERTIFICATION

ATAL/2024/1732703421

Skill India ATAL AICTE JAIN

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Nelson Mandela Marg, Vasant Kunj, New Delhi -110070

AICTE Training and Learning (ATAL) Academy

Certificate

It is certified that Mrs. S KANNAKI, Assistant Professor of Sri Krishna college of Engineering and Technology has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Power Electronics Applications in Microgrid using AI (peamgai - 2024) at JAIN DEEMED TO BE UNIVERSITY FACULTY OF ENGINEERING AND TECHNOLOGY from 09/12/2024 to 14/12/2024.

Kishore Kumar Pedapenki
Associate Professor Level (AICTE Institute), Coordinator
JAIN DEEMED TO BE UNIVERSITY FACULTY
OF ENGINEERING AND TECHNOLOGY

Dr. Sunil Luthra
Director & Bureau Head
Training and Learning Bureau, AICTE

ATAL/2024/1732703517

Skill India ATAL AICTE JAIN

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Nelson Mandela Marg, Vasant Kunj, New Delhi -110070

AICTE Training and Learning (ATAL) Academy

Certificate

It is certified that Mrs. NITHYA PRIYA S, Assistant Professor of Sri Krishna College of Engineering and Technology has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Power Electronics Applications in Microgrid using AI (peamgai - 2024) at JAIN DEEMED TO BE UNIVERSITY FACULTY OF ENGINEERING AND TECHNOLOGY from 09/12/2024 to 14/12/2024.

Kishore Kumar Pedapenki
Associate Professor Level (AICTE Institute), Coordinator
JAIN DEEMED TO BE UNIVERSITY FACULTY
OF ENGINEERING AND TECHNOLOGY

Dr. Sunil Luthra
Director & Bureau Head
Training and Learning Bureau, AICTE

Ms. S. Kannaki and **Ms. S. Nithyapriya,** Assistant Professors of **Mechatronics** Engineering, have successfully participated & completed AICTE Training and Learning (ATAL) Academy Faculty Development Program on **"Power Electronics Applications in Microgrid using AI (peamgai – 2024)"** at Jain Deemed to be University faculty of Engineering and Technology from 09/12/2024 to 14/12/2024.

MCT | NPTEL CERTIFICATION

Certificate No: ICT-19697/24

National Institute of Technical Teachers Training and Research
Chandigarh
MINISTRY OF EDUCATION, GOVERNMENT OF INDIA

Certificate

This is to certify that

FEROZ ALI

SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY, KUNIAMUTHUR, COIMBATORE TAMIL NADU

Participated in the AICTE Recognized Faculty Development Programme

on

AI for SDGs under Unnat Bharat Abhiyaan

Conducted by

Rural Development Department

from

18/11/2024 to 22/11/2024 (One Week)

at

Sri Krishna College of Engineering and Technology, Coimbatore, TamilNadu

Coordinator Director

Certificate No: ICT-19692/24

National Institute of Technical Teachers Training and Research
Chandigarh
MINISTRY OF EDUCATION, GOVERNMENT OF INDIA

Certificate

This is to certify that

JUSTIN MARIA HILLARY

SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY, COIMBATORE TAMIL NADU

Participated in the AICTE Recognized Faculty Development Programme

on

AI for SDGs under Unnat Bharat Abhiyaan

Conducted by

Rural Development Department

from

18/11/2024 to 22/11/2024 (One Week)

at

Sri Krishna College of Engineering and Technology, Coimbatore, TamilNadu

Coordinator Director

Certificate No: ICT-19723/24

National Institute of Technical Teachers Training and Research
Chandigarh
MINISTRY OF EDUCATION, GOVERNMENT OF INDIA

Certificate

This is to certify that

S KANNAKI

SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY, COIMBATORE TAMIL NADU

Participated in the AICTE Recognized Faculty Development Programme

on

AI for SDGs under Unnat Bharat Abhiyaan

Conducted by

Rural Development Department

from

18/11/2024 to 22/11/2024 (One Week)

at

NITTTR, Chandigarh

Coordinator Director

Dr.L.Feroz Ali, Dr.J. Justin Maria Hillary, and **Ms. S. Kannaki** Associate Professors of **Mechatronics Engineering**, have participated in the AICTE recognized one week online Faculty Development Programme on **"AI for SDGs under Bharat Abhiyaan"** conducted by Rural Development Department from18.11.2024 to 22.11.2024.

MCT | FACULTY CERTIFICATION

Certificate No: ICT-19703/24

National Institute of Technical Teachers Training and Research Chandigarh

MINISTRY OF EDUCATION, GOVERNMENT OF INDIA

Certificate

This is to certify that

D. PRITIMA

SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY, COIMBATORE TAMIL NADU

Participated in the AICTE Recognized Faculty Development Programme

on

IOT Application for SDGs and Sustainable Rural Development

Conducted by

Rural Development Department

from

18/11/2024 to 22/11/2024 (One Week)

at

Sri Krishna College of Engineering and Technology, Coimbatore, TamilNadu

Coordinator Director

Certificate No: ICT-19759/24

National Institute of Technical Teachers Training and Research Chandigarh

MINISTRY OF EDUCATION, GOVERNMENT OF INDIA

Certificate

This is to certify that

BHUVANESWARI

SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY, COIMBATORE TAMIL NADU

Participated in the AICTE Recognized Faculty Development Programme

on

IOT Application for SDGs and Sustainable Rural Development

Conducted by

Rural Development Department

from

18/11/2024 to 22/11/2024 (One Week)

at

NITTTR, Chandigarh

Coordinator Director

Dr. D. Pritima, Professor and **Dr. M. Bhuvaneswari** Assistant Professor of **Mechatronics** Engineering, have participated in the AICTE recognized one week online Faculty Development Programme on **"IoT Application for SDGs and Sustainable Rural Development"** conducted by Rural Development Department from18.11.2024 to 22.11.2024.

MCT | FACULTY CERTIFICATION

ATAL/2024/1733063404

Skill India ATAL AICTE NITTTR

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Nelson Mandela Marg, Vasant Kunj, New Delhi -110070

AICTE Training and Learning (ATAL) Academy

Certificate

It is certified that ***Dr. Bhuvaneswari, Assistant Professor*** *of* ***Sri Krishna College of Engineering and Technology*** *has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on* ***Empowerment of Robotic, AI&ML and Additive Manufacturing in Industry 4.0*** *at* ***NALANDA INSTITUTE OF TECHNOLOGY*** *from* ***02/12/2024*** *to* ***07/12/2024.***

SHAKTI PRASANNA JENA
Associate Professor Level (AICTE Institute), Coordinator
NALANDA INSTITUTE OF TECHNOLOGY

Dr. Sunil Luthra
Director & Bureau Head
Training and Learning Bureau, AICTE

Dr.M.Bhuvaneswari, Assistant Professor of **Mechatronics** Department Engineering, has successfully completed AICTE Training and learning Academy (ATAL) Faculty Development Program on **"Empowerment of Robotic, AI & ML and Additive Manufacturing in Industry 4.0"** at Nalanda Institute Of Technology from 02/12/2024 to 07/12/2024.

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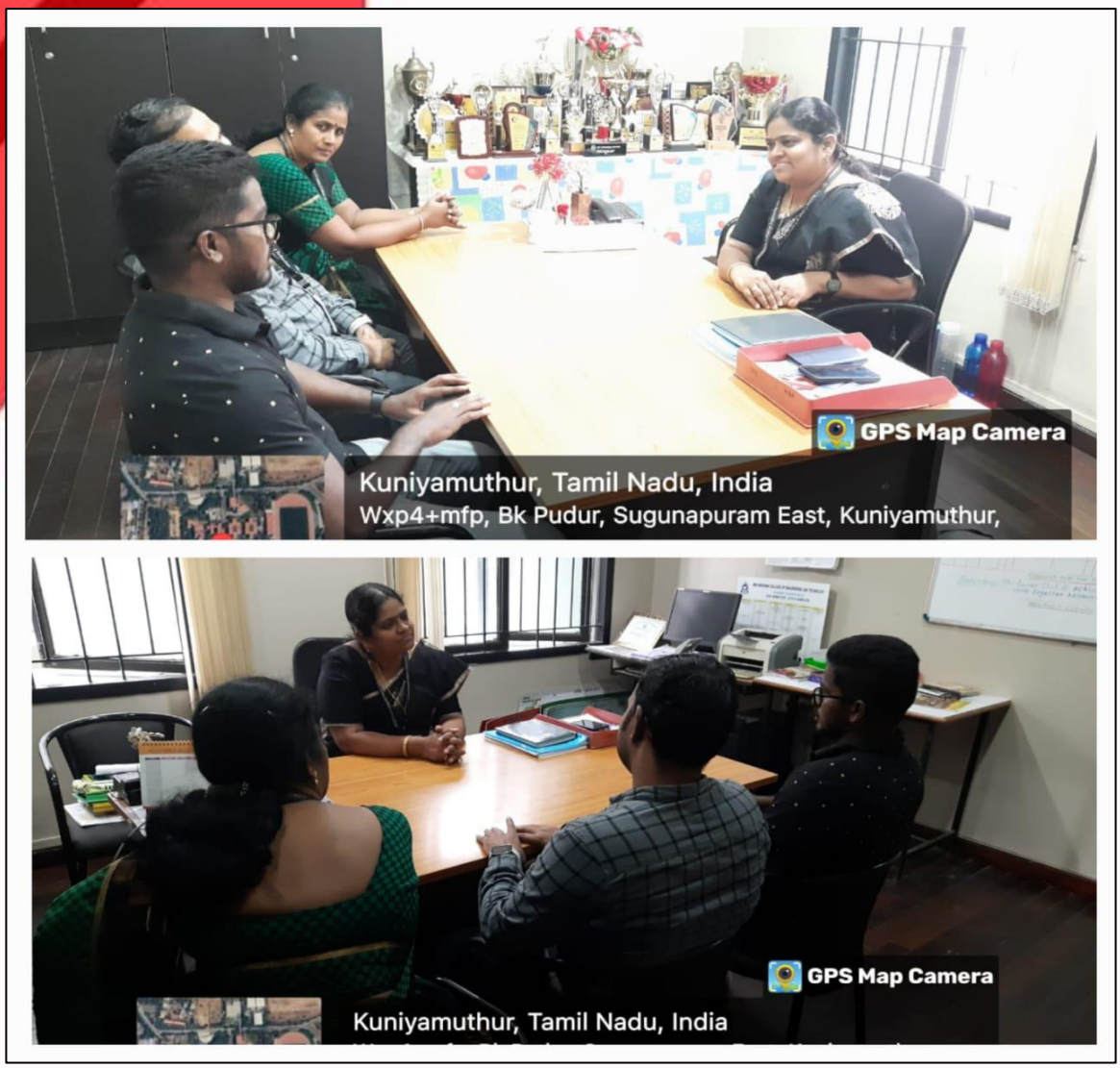
EEE | ALUMNI REBOUND

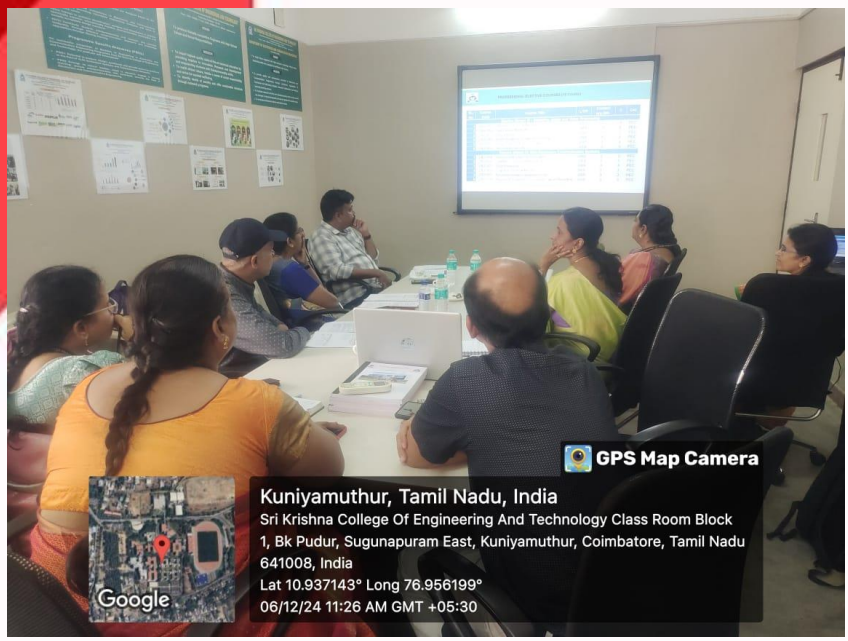


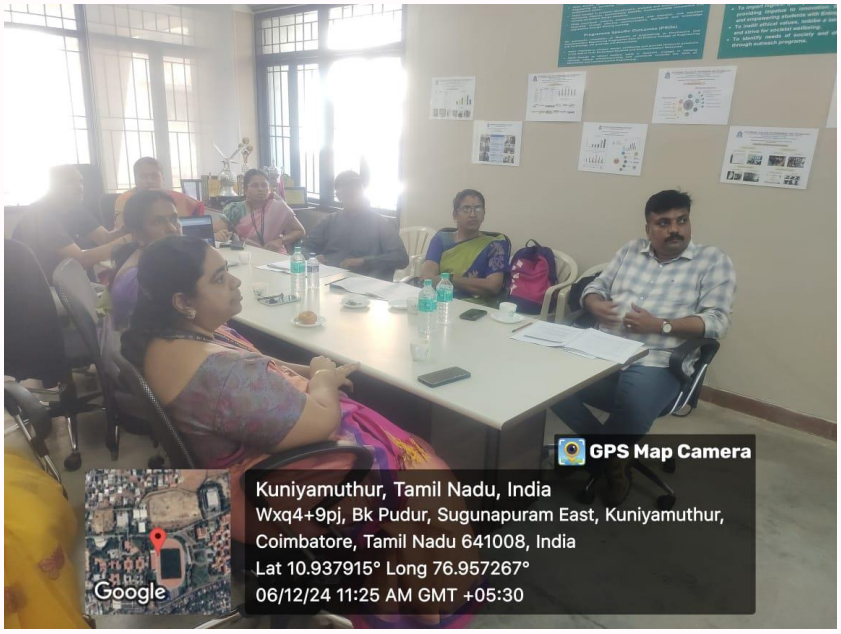
Mr. T.Nishanth, EEE alumnus (2016-2020 Batch) and QA Engineer at Talking Yak, Bangalore visited SKCET campus and interacted with **Dr. K. C. Ramya, HoD/EEE** and Senior faculty members of the department on 30.11.2024. The discussion centered on fostering entrepreneurship skill development among students to prepare them as future entrepreneurs.

Key Points Discussed:

- Developing a Business Idea
- Acquiring Business Skills
- Leveraging Networks
- Emphasizing Creativity and Innovation
- Enhancing Interpersonal Skills.

ECE | ALUMNI INTERACTION





Mr.K.Arun Kumar Vikram (Alumni of 2010-2014 Batch), Senior Member of Technical Staff, AMD, Bangalore was the member of Board of Studies (BOS) held on 06.12.2024. He exchanged his ideas and suggestions with other BOS members regarding industry ready syllabus especially in core subjects.

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ECE | CREATIVE CORNER

Maria Yazhini M
IV – ECE – B

ECE | CREATIVE CORNER

Human Rights Day – 10th December

Human Rights are for everyone. No matter what our work is, what our height is, we all deserve to be treated fair and right. Our rights give us a voice, that can be both a weapon and aid. Let us use that voice for the betterment of those who are silenced.

"To deny people their human right is to challenge their very humanity."

International Mountain Day – 11th December

With the development of mountain areas, the unique biological and cultural heritage of mountains is facing the danger of extinction. The international community must establish an alliance of international organizations, national government, civil society, the private sector and mountain residents to jointly protect the mountains.

"If there is no internet connection, try not to panic, look around, Interact with the nature and let's be in reality."

National Creche Day – 12th December

Creche is a place where small children are looked after while their parents are working, shopping, etc. An organization/ People which takes care of young that are not their own. This day is celebrated as the appreciation day for the providers and the care takers.

"Small hands can handle a pen better. Lend your support to childcare and education."

National Energy Conservation Day – 14th December

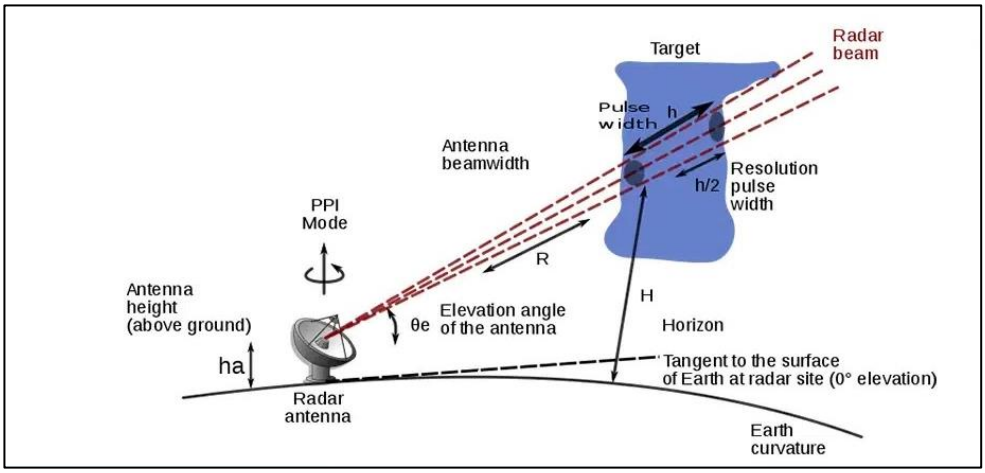
Energy conservation are efforts made to reduce the consumption of energy by using less of an energy service. The future is green energy, sustainability, renewable energy. Destruction of energy will in turn destruct the whole mankind. Every bit of conserved energy can make a big difference. Let us pledge to save energy in small ways.

"Let's channel our energy into preserving the planet."

- **MADHURA N IV ECE B**

ECE | CREATIVE CORNER

Fundamentals and Applications of RADAR Technology



RADAR (Radio Detection and Ranging) has revolutionized the way we perceive and interact with the world. Its history dates back to World War II, where it was used for military purposes. Today, RADAR operates on the principle of sending electromagnetic waves and analysing their reflections to detect objects, measure distances, and determine speeds. Common types include pulsed, continuous-wave, and phased array RADAR systems.

Applications of RADAR

From safeguarding nations to simplifying daily life, RADAR's applications are vast:

- **Military and Defence**: Used for surveillance, missile guidance, and tracking.
- **Civilian Use**: Enhances air traffic control, weather forecasting, and navigation.
- **Industrial and Commercial**: Plays a role in automotive safety, process control, and security systems.

Future Trends and Practical Skills

Emerging technologies integrate RADAR with Artificial Intelligence (AI) for improved automation and decision-making. Hands-on experience with simulation tools like MATLAB, Python, and GNU Radio empowers engineers to design, analyse, and optimize RADAR systems. Real-world projects provide invaluable insights into this evolving technology.

- **Suja S IV ECE A**