

A WEEKLY NEWSLETTER

Editor in Chief

Editors

Dr. Srinivasan Alavandar Principal, ACT Ms N Dhivya, AP - S&H Ms S Archana AP - EEE Mr V Kothantapani - EEE II Year



PLACEMENT NEWS





Final year shortlisted students from departments of Computer Science, Information Technology, Electronics and Communication, Electrical and Electronics attended Interview Process at **Trainocate Networks India Private Limited** on 6th May 2024 at Company Premises. Trainocate is a leading learning and development service provider company in Analytics, Artificial Intelligence, Big Data, Cloud Computing, Data Science, Dev Ops, Machine Learning and more.





SPORTS EVENT





As part of our **Annual Sports Day** celebration, the inaugural ceremony, symbolizing the **Light of Sportsmanship** through the **Torch Relay**, was ignited by our esteemed Principal, Dr. Srinivasa Alavandar, alongside all the Heads of Departments, on May 2nd, 2024.





GALLERY





















WORLD CREATIVITY

&INNOVATION DAY



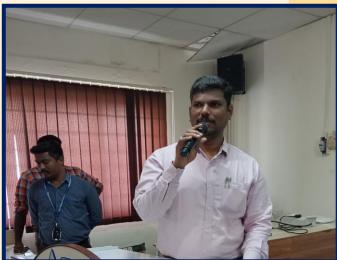
The Department of Science and Humanities have organized the celebration activity as an observation of World Creativity & Innovation Day 2024 in the theme, The Future of Electric Power. Dr. Premalatha. L, Professor of HAG, School of Electrical Engineering, VIT, Chennai, was Chief Guest for the Seminar. She engaged the student participants very effectively in order to educate them with the production of electricity transitioning from coal, petroleum, and natural gas to renewables, like wind and solar, direct current (DC) alternating current (AC) and grids etc. Dr. Arul Kulandaivel sharing innovative gathering by welcomed the ideas and methodology for the students regarding the significant features of the electric power and its uses from a futuristic perspective. As a leaving note, the chief guest appreciated the head and the organizing team for the hospitality provided. Mr. K. Balaji Sundharam, S&H was the coordinator for the program.





GALLERY











WORKSHOP



The Department of Mechanical Engineering & ICT **Academy** in association with AUTODESK organises a One day Workshop on "Autodesk Fusion 360-Day 3" (Direct Mode) for 3rd year students .Mr. K. Saravanan, Assistant Professor, Department of Mechanical Engineering the coordinated and Dr.P.Purushothaman event Head/Mechanical sciences felicitated the Resource person on $10^{
m th}$ May , 2024 .









PROJECT VIVA



The honorable **Principal Dr.Srinivasan Alavandar** visited the **Mechanical students** final year project **Gokart fueled with Gasohol** developed by Mr.Saravanan & team and appreciated the students work on 9th May , 2024.







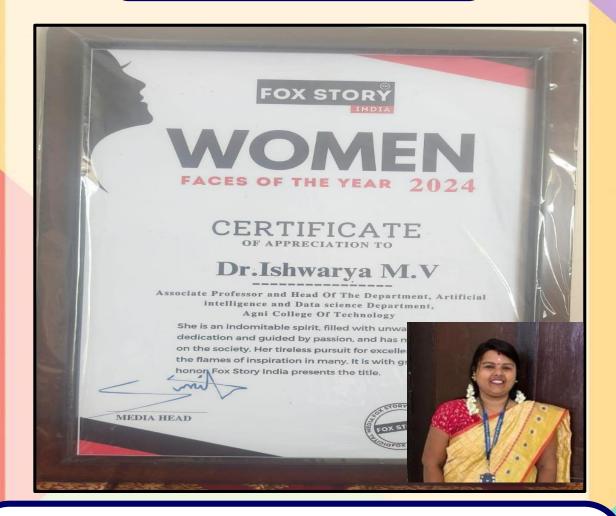
Dr. T. Anand, Dean Academics, Dr. K. Ragupathy, and Mr. M. Arun, Assistant Professor, Department of Mechanical and Automation Engineering have obtained an Indian Design Patent (Certificate of Registration of Design) as Applicant & Inventor in the title of Invention "SEED SOWER". Design no. 408692-001, dated 2nd May 2024.











Dr. ISHWARYA M.V., Associate Professor and Head of the Department of Artificial Intelligence and Data Science has received the "WOMEN FACES OF THE YEAR 2024" award from FOX STORY on 9th May 2024.







Dr. Ishwarya M.V., Associate Professor and Head of the Department of Artificial Intelligence and Data Science, published book titled "BIG DATA FOR UNLOCKING UNTAPPED DIGITAL MARKETING OPPORTUNITIES" in LAP publication indexed by LAMBERT on 9thth May 2024.



8-3503-8193-1/24/831.00 @2024 IEEE | DOI: 10.1109/INOCON60754.2024.10511316

FACULTY ACHIEVEMENT

2024 3rd International Conference for Innovation in Technology (INOCON) Karnataka, India. Mar 1-3, 2024

Cloud-Based Road Safety for Real-Time Vehicle Rash Driving Alerts with Random Forest Algorithm

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S. Murugan
Department of Biomedical
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Chennai, Tamil Nadu, India

Abstract— The cloud-based road safety technology introduced in this research improves real-time vehicle behavior monitoring and warns for rash driving. It uses cloud computing to gather and interpret data from onboard car sensors and other traffic monitoring equipment. Powerful machine learning technology the Random Forest (RF) algorithm analyses this data intelligently. The RF algorithm is trained on a varied array of driving metrics to detect rash driving tendencies. Real-time data streams may be processed efficiently and scalable on the cloud, enabling speedy decision-making for rash driving detection. A network sends alerts to

careless driving, intoxication, and fatig new models have been launched to im are expensive to maintain and put into p minimal prototype for continuous m alertness to prevent accidents by recognition with MQ sensors for dete intoxication levels. The detection of aut an image of the fast car and uploads th database [4]. A distance sensor measure between two places. The data will b ESP8266, which will determine speed

Dr. ISHWARYA M.V., Associate Professor and Head of the Department of Artificial Intelligence and Data Science has published a paper titled "CLOUD-BASED ROAD SAFETY FOR REAL-TIME VECHICLE RASH DRIVING ALERTS WITH RANDOM FOREST ALGORITHM" in the 3rd IEEE International Conference for Innovation in Technology (INOCON) on 09th May , 2024. Indexed by Scopus.





Navigating Grid Dynamics with V2G Technology and Naive Bayes Optimization in IoT Systems

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sujathasmy

Abstract—Vehicle-to-Grid (V2G) technology and Naive Bayes optimization, which might help IoT devices, navigate grid dynamics. Electric vehicles (EVs) with bidirectional charging capability may provide grid assistance using their energy storage capacity. These cars can take and return energy from the grid using V2G technology, stabilizing the system. This paper proposes a unique technique to intelligently control

batteries to collect energy from power not for distribution. Energy expenses and price reduced via bidirectional charging. An et a completely integrated vehicle-grid systes smart city energy challenges. Zero-carbon may boost consumer, grid, and economic

Dr. ISHWARYA M.V., Associate Professor and Head of the Department of Artificial Intelligence and Data Science has presented and published a paper titled "NAVIGATING GRID DYNAMICS WITH V2G TECHNOLOGY AND NAÏVE BAYES **OPTIMIZATION** SYSTEMS" IN IoT in the Conference for Innovation **Technology** International in (INOCON) on 09th May, 2024. Indexed by Scopus.





Wireless Personal Communications https://doi.org/10.1007/s11277-024-11109-z

RESEARCH



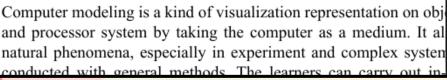
Computer Modeling Using Visualization of Measuring Method

L. Sharmila¹ • Maya P. Shelke² • R. Venkatesan³ • R. Ramya⁴ • G. Umadevi⁵ • M. V. Ishwarya⁶

Accepted: 16 April 2024

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Abstract





Dr. Ishwarya M.V., Associate Professor and Head of the Department of Artificial Intelligence and Data Science published a research paper titled "COMPUTER MODELING USING VISUALIZATION OF MEASURING METHOD" to the journal "WIRELESS PERSONAL **COMMUNICATIONS**" which was indexed by **Taylor & Francis (SCI)** on 09th May 2024.





An innovative breast cancer detection framework using multiscale dilated densenet with attention mechanism Subhashini Ramachandran 💌, Rajasekar Velusamy, Namakkal Venkataraman Srinivasan Sree Rathna Lakshmi &

Chakaravarthi Sivanandam Received 09 Feb 2024, Accepted 05 Apr 2024, Published online: 22 Apr 2024

https://doi.org/10.1080/0954898X.2024.2343348 66 Cite this article

🖻 Full Article 😉 Figures & data 🛮 References 😘 Citations 🕍 Metrics 🖨 Reprints & Permissions Read

ABSTRACT

Cancer-related deadly diseases affect both developed and underdeveloped worldwide. Effective network learning is crucial to more reliably identify and categorize breast carcinoma in vast and unbalanced image datasets. The absence of early cancer symptoms makes the early identification process challenging. Therefore, from the perspectives of diagnosis, prevention, and therapy, cancer continues to be among the healthcare concerns that numerous researchers work to advance. It is highly essential to design an innovative breast cancer detection model by considering the complications presented in the classical techniques. Initially, breast cancer images are gathered from online sources and it is further subjected to the segmentation region. Here, it is segmented using Adaptive Trans-Dense-

Unet (A-TDUNet), and their parameters are tuned using the developed Modified Sheep Flock

N.V.S. Sree Rathna Dr. Lakshmi, Professor/Head, Department of Electronics and Communication Engineering has published a manuscript titled "An Innovative Breast Cancer Detection Framework Using Multiscale Dilated **Densenet With Attention Mechanism"** in the journal of Network: Computation in Neural Systems (Scopus, SCI

Indexed, Annexure 1) with IF: 7.8







Marketers today are drowning in data: website dicks, social media engagement, customer purchases, and more. This data, if harnessed effectively, can be a goldmine for unlocking new marketing opportunities. Big data, with its wast volume, velocity, warety, and veracity (the 4 Vid. offers a powerful way to analyze this information and extract actionable insights.

Big dista allows you to see beyond demographics and delve into customer behavior. By analyzing website traffic patterns, purchase history, and social media interactions. You can identify hidden customer segments with unique needs and preferences. The empowers you to talker your marketing messages and campaigns for maximum impact.

Big data can be used for predictive modeling, anticipating customer behavior and preferences. This allows you to personalize your marketing efforts, sending targeted messages and recommendations that resonate with each individual customer.



Ishwarya M.V Ratheesh R Samundeswari S

BIG DATA FOR UNLOCKING UNTAPPED DIGITAL MARKETING OPPORTUNITIES



king as Associate Professor and Head in AIDS Dept hology, g as Assistant Professor in ECE Dept in Agni college orking as Associate Professor in CSE Dept in Sri Sai

Dr. R. Ratheesh, Assistant Professor, Department of Electronics and Communication Engineering has published a book titled "Big Data For Unlocking Untapped Digital Marketing Opportunities" in LAP publication indexed by LAMBERT on 9thth May 2024.

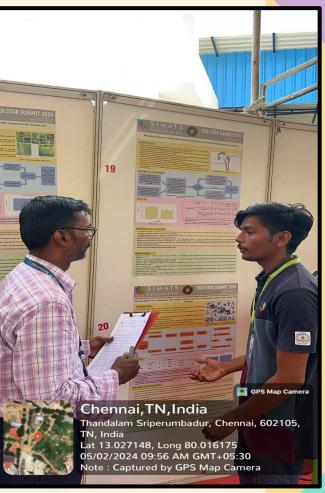






FACULTY ACHIEVEMENT

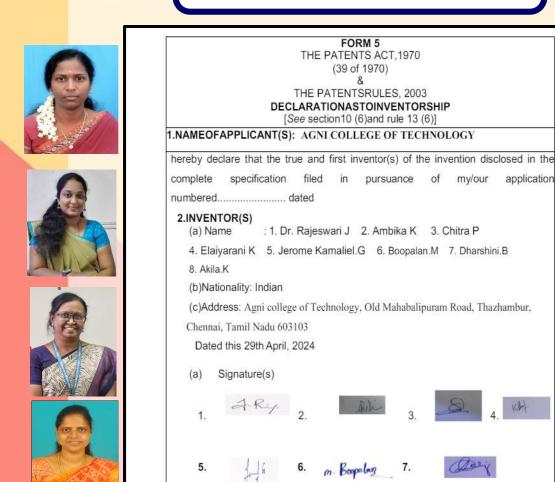




Mr. Ohm Shankar S, Assistant Professor, Department of Electronics and Communication Engineering has invited as a project evaluator at the Saveetha Institute of Medical and Technical Sciences Engineering for **TechStarSummit 2024**.







Dr. J. Rajeswari, K. Ambika, Dr. P. Chitra and K. Elaiyarani Assistant Professors, Department of Electronics and Communication Engineering have filed and published a patent titled "A Robust Protection System for Indian Women: Smart Ring".







Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

REMYA O C

for successfully completing the course

Fuzzy Sets, Logic and Systems & Applications

with a consolidated score of 70

Online Assignments | 19.06/25 | Proctored Exam | 51/75

Total number of candidates certified in this course: 1394

Prof. B. V. Ratish Kumar
Chairman, Centre for Continuing Education
IIT Kanour

Jan-Apr 2024 (12 week course) Prof. Satyaki Roy
NPTEL Coordinator



Indian Institute of Technology Kanpur



Roll No: NPTEL24EE32S353403022

To verify the certificate



No. of credits recommended: 3 or 4

Mrs. Remya O C, AP, Department of EEE, has successfully completed the NPTEL course titled "Fuzzy Sets, Logic and Systems & Applications" and secured a consolidated score of 70% with ELITE.





FACULTY PARTICIPATION







Title: Biochar-Based Briquettes for Sustainable Energy

Mr.K.Saravanan
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Mr. K. Saravanan, Assistant Professor, Department of Mechanical Engineering successfully presented a **Project Proposal under SEG on Rural Energy Systems (RES), Unnat Bharath Abhiyan** on 08th May 2024.





STUDENT ACHIEVEMENT





Pradeep and Raunak Manojkumar, first year students from Science and Humanities, received cash awards for completing the NPTEL course with Elite Category. Dr. Arul Kulandaivel, Head of the Department of Science and Humanities, gave textbooks for the current semester. The NPTEL course was mentored by Mr. K. Balaji Sundharam, Asst. Professor of English.







STUDENT ACHIEVEMENT



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

SOWMYA R

for successfully completing the course

Python for Data Science

with a consolidated score of 61

1

%

Online Assignments | 23.83/25

Proctored Exam

36.74/75

Total number of candidates certified in this course:11953

Devendra Jalihal

Prof. Devendra Jalihal
Chairperson,
Centre for Outreach and Digital Education, IITM

Jan-Feb 2024

(4 week course)

Prof. Andrew Thangaraj NPTEL, Coordinator IIT Madras



Indian Institute of Technology Madras

FREE ONLINE EDUCATION SWAYAM FIRE OF THE PROPERTY OF THE PROPE

Roll No: NPTEL24CS54S544102805

To verify the certificate



No. of credits recommended: 1 or 2

Ms. Sowmya R, II year, Department of Computer Science and Engineering has completed the NPTEL course titled, "Python for Data Science", in ELITE category with a score of 61%.





STUDENT ACHIEVEMENT

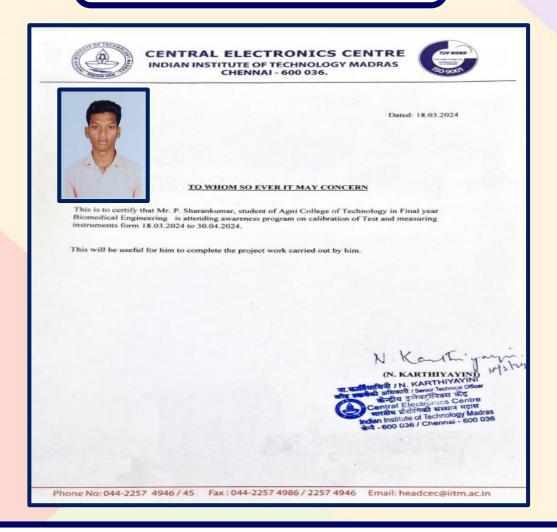


M.Sanjay, IV year Mechanical Engineering has successfully completed four months "Internship Program" from the period 2/1/2024 – 30/4/2024 in the field of **Product design at Femlogic Technologies India Pvt., Ltd.**





STUDENT PARTICIPATION



Mr. Sharan Kumar. P, IV year student, from the Department of Biomedical Engineering, attended the Awareness Program on Calibration of Test and Measuring Instruments from 18.03.2024 to 30.04.2024 in Central Electronics Centre.





PROJECT REVIEW





The **Final project review** is conducted in the Department of **Computer Science & Engineering** in the presence of the Dr. Balaji Madhavan, Head of the Department, Mrs. Uma **Devi,** Project Coordinator and along with the project Evaluation Team Members Mr. R. Kannan, Mr. G. Praveen Kumar & Mrs P. Manju.





CLASS ACTIVITY





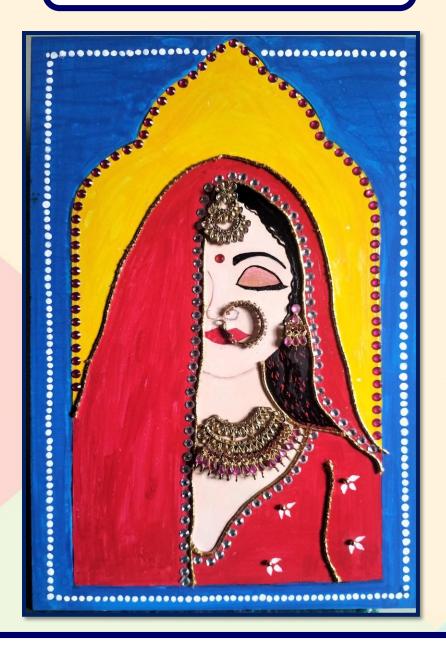


The first-year students from G section are actively engaging in various activities like dialogue conversations and skits! Participation in extracurricular activities, not only fosters creativity and teamwork but also helps students develop important communication and presentation skills. Encouraging such enthusiasm and involvement sets a positive tone for their academic journey and contributes to a vibrant learning environment. The activity was mentored by. Mr. K. Balaji Sundharam, Assistant Professor, S&H (English).





STUDENT REPOSITARY



Lavanya. I (CSE), first year student, Department of Science and Humanities, has skillfully depicted the painting of a bride.

