

SKCET Buzz



6th August – 12th August 2022



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HACKATHON ACCOLADES



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CSE & M.TECH CSE | TAIWAN PRESIDENTIAL HACKATHON INTERNATIONAL TRACK - 2022



Team B.E.N.Z (Being Environmental and Net Zero) from the Department of **CSE** and **M.Tech CSE** has proved themselves as the only emerging Indian team who has bagged the **Team of Excellence Award** in Taiwan Presidential Hackathon - International Track.

The project theme aimed at achieving net-zero and sustainable development goals. It made use of tools from the GIS software, to analyze suitable land tracts for planting trees and planning urban forests making the planted trees self-sustainable.

Team Members:

Samyukta K - II CSE

Sanjay R - II CSE

Anwisha Zaman - III CSE

Kavin Kishore L - II MTech CSE

Surya B - II MTech CSE

Mentor:

Dr.M.Rohini M, AP/CSE



INSTITUTIONAL EVENTS



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SKCET | ANTI-DRUG AWARENESS



SAY NO TO DRUGS AND YES TO LIFE

National Service Scheme of SKCET (NSS) organized an “Anti-Drug awareness pledge and campaign” as mandated by the Government of Tamilnadu to fight against the menace of drugs. Around 1500 students along with the officials from **Coimbatore Corporation** and faculty members of **SKCET** pledged to stand against the use of drugs. The goal of the programme is to mobilize support and inspire people to act against the usage of drugs.

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STUDENT CERTIFICATION



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EEE | WORKSHOP ON DESIGN SIMULATION AND ANALYSIS OF PMSM FOR TRACTION



Sharan C M, Shyam Vignesh C, Surrya M, Pragadeeswaran M and Sriram K students of Final year EEE along with N.Subha Lakshmi, Assistant Professor, EEE attended a 3 day workshop on “Design simulation and analysis of PMSM for traction” held at PSG College of Technology, Coimbatore from 27th July 2022 to 29th July 2022.

Session Highlights:

- Motor choice for traction
- Key parameters for sizing of magnets
- Traction motor design choices
- Hands on session on Flux software by Altair Pvt Ltd, Hyderabad.

M.TECH CSE | MONGO DB BOOTCAMP

Vikas J, student of Third year, M.Tech. Computer Science and Engineering has participated in the master class on “Mongo DB Bootcamp” organized by Scaler on 2.08.2022.



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STUDENT PROGRESSION



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MECH| INTERN @ INDO GERMAN TOOLS



V.P. Rishi Karthikeyan, student of Third year Mechanical Engineering underwent an In-Plant training at Indo-German tools from 04.07.2022 to 19.07.2022. During the tenure, the student had hands-on experience on manufacturing precision components, sheet metal works, automobile components and Laser cutting components.

MECH| INTERN @ SRI KUMARAGURU MILL LIMITED

S. Nitheen, student of Third year Mechanical Engineering underwent an In-Plant training at Sri Kumaraguru Mill Limited from 11.07.2022 to 16.07.2022. During the tenure, the student had hands-on experience on yarn manufacturing and yarn spinning technology.

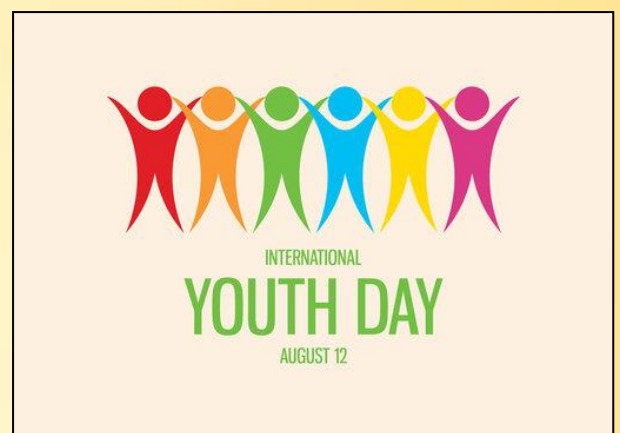


MCT| BEST PAPER AWARD

Paper entitled “Design and Fabrication of a Wheeled Carrier Equipped with a Robotic Arm for Material Handling” has been presented by **Aditya Ramesh, Ijas Ahamed and Akshey** students of **MCT** Department, in the Research Conclave conducted by PSG College of Technology. The paper was adjudged as the **Best Paper** and has been awarded the **First prize** with a cash reward of Rs 5000/-.



DAYS OF OBSERVANCE



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TRAINING AND PLACEMENT



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PLACEMENT | TESTIMONIAL BY PLACED STUDENTS

**KINGSLY ANDREWS M (2023 Batch)
SOLITON TECHNOLOGIES - 8 LPA**

I thank SKCET for giving me an opportunity to be placed in a very renowned organization. SKCET created many memorable moments in my life during college days as it was my first time away from home. They provided me with many opportunities to improve and enhance my skills in a friendly environment. Even during COVID they helped us train for our placements and helped us during hard times. I am grateful to everyone who supported me to be onboard on my first job in Soliton and creating a path to achieve greater heights in my future. I want to thank my faculty members and friends who helped me prepare for my interviews. My life at SKCET – a quality time for career building.

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EVENTS



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MCT|FACULTY SEMINAR SERIES # 18



Department of **Mechatronics Engineering** has initiated the **Faculty Seminar Series** as a knowledge-sharing session for the benefit of the faculty members. **Mr.M.Vigneshwaran**, Assistant Professor, **MCT** has shared his views on the topic “**Lean Life**” on 03.08.2022.

Session Highlights:

- Lean vs Traditional Method
- Waste Management Techniques
- Lean Practices in life style

MCT| ASSOCIATION INAUGURATION



Mechatronics Engineering Association was inaugurated on 04.08.2022. Expert talk on **“State space Navigation for Intelligent Robotic Agents”** was also organized. **Dr. Anand Paul**, Director, Connected Computing and Media Processing Lab, **Kyungpook National University, South Korea** was the resource person.

Session Highlights:

- State space navigation
- Wumpus World
- Search algorithms
- Linear and Binary search

CSBS|SIH 2022- INTERNAL LEVEL MENTORING



Department of **Computer Science and Business Systems** organized an internal level mentoring session for Smart India Hackathon - 2022 event on 08.08.2022. Team “**FreeThinker**” presented their ideas on the problem statement “**Use of technology in trade and logistics in reducing transportation and transaction costs**”. Dr. S. Balakrishnan, **HoD, CSBS** along with the faculty members gave valuable suggestions for further enhancement.

ECE| AI FACE DETECTOR WITH PYTHON



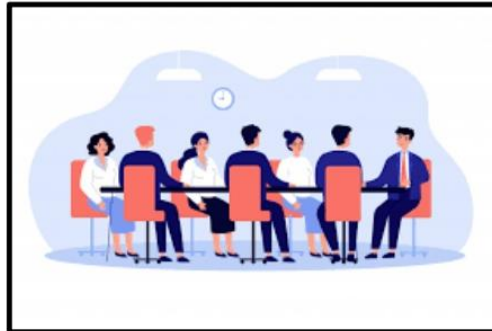
Department of **ECE** organized a seminar on the topic "**AI Face Detector with Python**" on 10.08.2022. Resource Person for the event was **Mr. P. Celestine**, Robotic Associate, CADD Technologies, Coimbatore. Session highlights were: History of AI, Aspect of AI, Computer Vision, Image Conversion and multiple detection and Machine Learning Algorithm.

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TUTOR WARD MEETING



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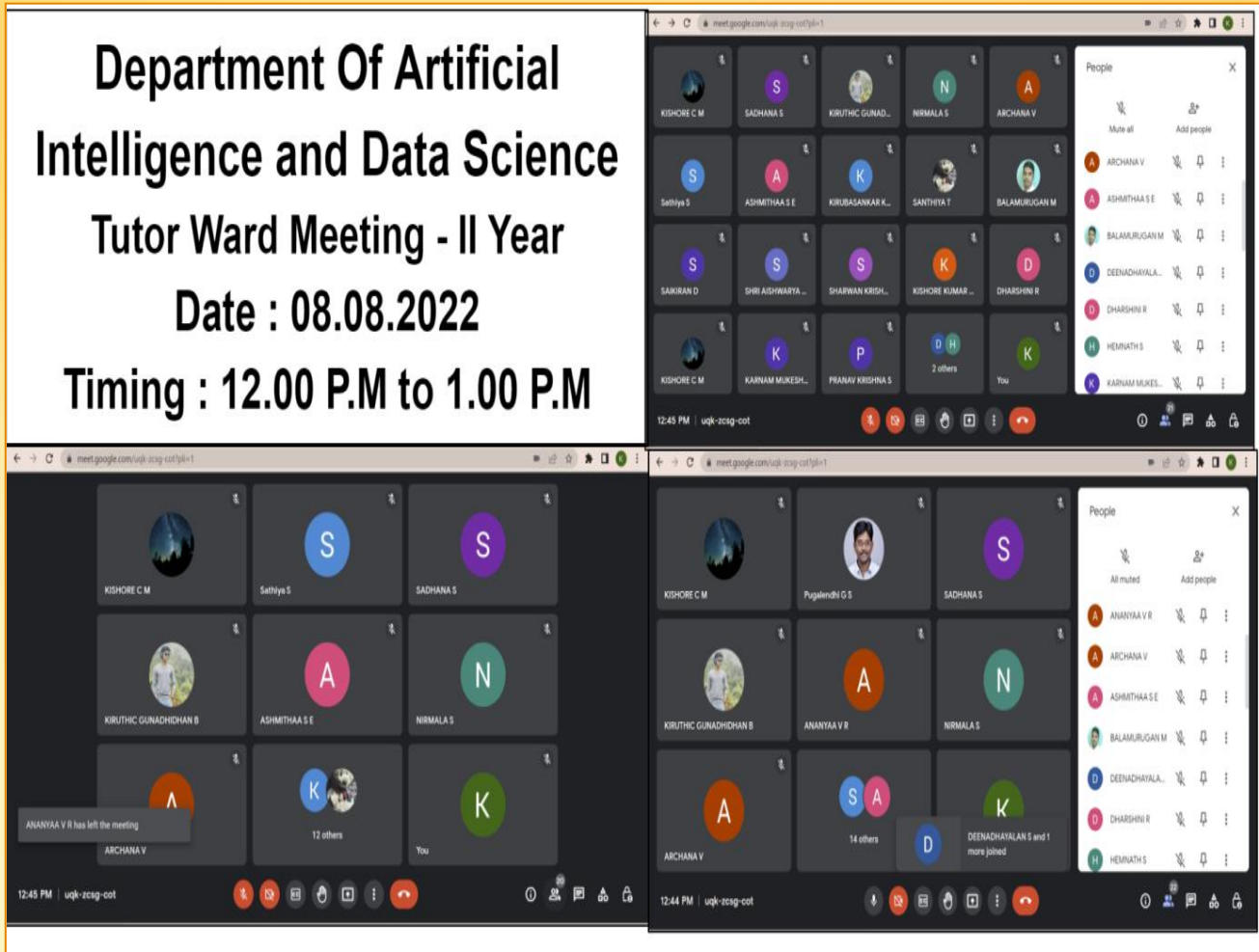
AI&DS| TUTOR WARD MEETING – II YEAR

Department Of Artificial
Intelligence and Data Science

Tutor Ward Meeting - II Year

Date : 08.08.2022

Timing : 12.00 P.M to 1.00 P.M



Dr. S. Venkata Lakshmi, HoD, AI&DS along with Mr. G.S.Pugalendhi, and Ms.S. Sathiya, faculty members of Artificial Intelligence and Data Science department conducted Tutor Ward Meeting for the Second year students on 08.08.2022 via Google Meet. The pointers of discussion were: Curriculum and Syllabus of the upcoming semester, Maintaining discipline, MOOC certifications, motivated the students to effectively participate in co-curricular & extracurricular events and placement activities.

AI&DS| TUTOR WARD MEETING – III YEAR



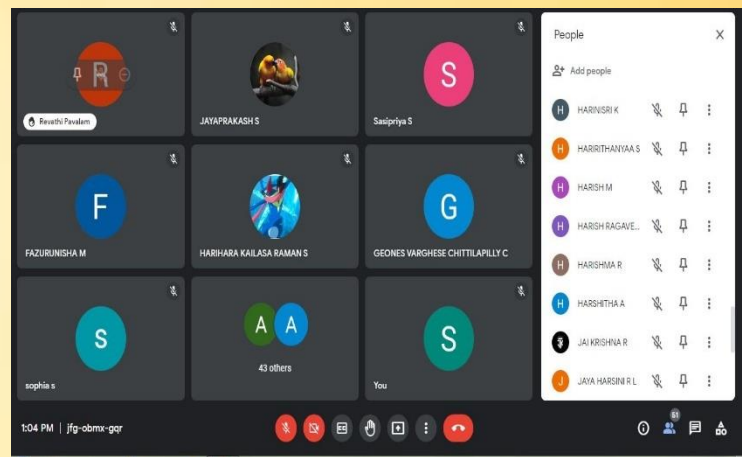
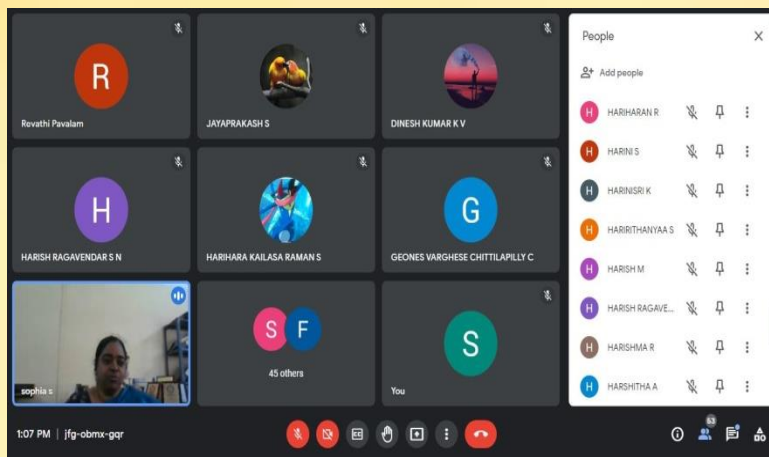
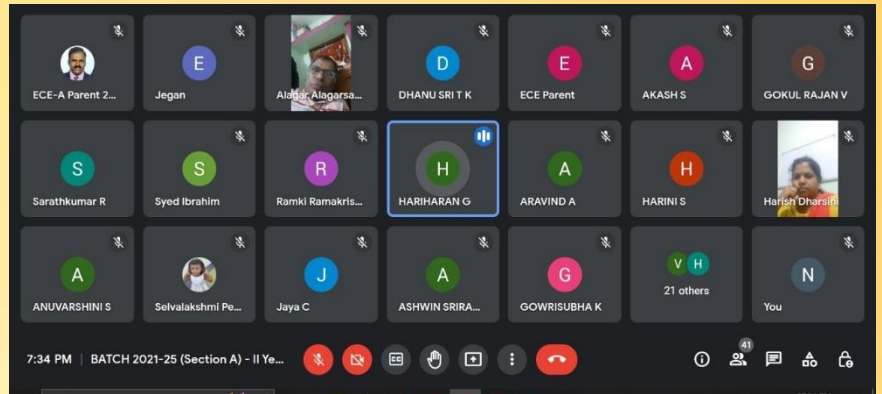
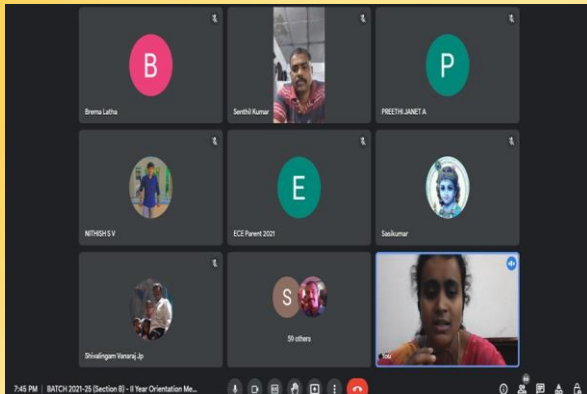
Tutor Ward Meeting was conducted for the **Pre- final** year students of **AI&DS** Department on 10.08.2022 by **Ms.B.Kiruba**, Assistant Professor, **AI&DS**. The key points of discussion were: Academic activities, Class Attendance, Placement opportunities, Mini projects, and motivated students to enhance their skill set in emerging technologies.

MCT| TUTOR WARD MEETING – IV YEAR



Mrs.S.Kannaki and **Mrs. M.Bhuvanewari**, Assistant Professors, **MCT** conducted **Tutor Ward Meeting** for the **Final** year **MCT** students. The pointers of discussion were: Placement training attendance and Feedback, NPTEL assignment completion status, Placement preparedness and encouraged the students to improve programming skills and communication skills.

ECE| PARENTS MEETING



Parent-Teacher Meeting for the **Second** year **ECE** students was conducted on 05.08.2022. **Dr S Sophia**, Professor & Head Department of **ECE** addressed the students and their parents. The following points were discussed: Change of Grading system and assessment pattern as per Anna University guidelines, Industrial Training courses, Requirements and Importance of Industrial Training, 21 days Internship - Mandatory two credit and First semester results.

R&D| ARTICLE PUBLICATION| MECH



Dr. C. Rajendran, Associate Professor, Mechanical Engineering has published a scientific article entitled **‘Assessment of the Influence of FSSW Parameters on Shear Strength of Dissimilar Materials Joint (AA6061/AZ31B)’** in the International Journal of Lightweight Materials and Manufacture. It is a Scopus Indexed Journal.

R&D| PAPER PUBLICATION| ECE

Dr. V Nandalal, Professor, Department of ECE has published an Annexure – I, SCI-E and Scopus indexed Journal titled **“Investigations of Substrate and Patch Materials for Sub-Terahertz Wireless Applications Scenario”** in the Journal of Electronic Materials.



R&D| PAPER PUBLICATION| MCT

Mr.S.Madhankumar, Assistant Professor, MCT has successfully published a paper entitled “Computational and Experimental Study of a Novel Corrugated – Type Absorber Plate Solar Collector with Thermal Energy Storage Moisture Removal Device” in Applied Energy Elsevier Journal. This is an Anna University - Annexure 1 Journal with an impact factor of 11.446.

Contents lists available at ScienceDirect
Applied Energy
journal homepage: www.elsevier.com/locate/apenergy

Computational and experimental study of a novel corrugated-type absorber plate solar collector with thermal energy storage moisture removal device
S. Madhankumar^{a,*}, Karthickeyan Viswanathan^{b,c,*}

^a Department of Mechanical Engineering, Sri Krishna College of Engineering and Technology, Coimbatore 641008, India
^b Department of Mechanical Engineering, Sri Krishna College of Technology, Coimbatore 641042, India
^c Department of Chemical Engineering, National Cheng Kung University, Tainan, 70101, Taiwan.

HIGHLIGHTS

- CFD and experimental analysis of a novel CAPSC with and without TES in direct moisture removers.
- The impact of incorporating TES on dehydration performance has been investigated.
- The dehydration unit's energy efficiency varied from 43.30 to 46.64%.
- The maximum difference among computational and experimental results was found to be 4.27%.
- The SMER value was computed to be in the 0.216–0.427 kg/kWh range.

GRAPHICAL ABSTRACT

R&D| PAPER PUBLICATION | S&H

Ms.Revathy P, Assistant Professor, Department of Science and Humanities has published a paper entitled "Edge Domination in Signed Graphs", in the Journal of Algebraic Statistics, ISSN 1309-3452, Volume 13, No. 3, 2022, p.1423-1427. It is indexed in WOS.

JOURNAL OF ALGEBRAIC STATISTICS
Volume 13, No. 3, 2022, p. 1423-1427
<https://pubs.scitecresearch.com>
ISSN: 1309-3452

Edge Domination in Signed Graphs

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²Associate Professor, Department of Mathematics, Sri Ramakrishna Engineering College, Coimbatore, Tamilnadu, India. Email: santhi.r@srcec.ac.in
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ABSTRACT

A signed graph is defined by an ordered pair $\Sigma = (G, \sigma)$ where $G = (V, E)$ is an underlying graph of Σ and $\sigma: E \rightarrow \{+, -\}$ is a function called a signature function. In this paper we define the edge domination parameters like positive edge domination number and negative edge domination number in signed graph. Further investigate the properties and bound of these domination parameters. In addition explain the theorem with examples.

Keywords: Signed graph, positive edge domination and negative edge domination.

INTRODUCTION

A signed graph is defined by an ordered pair $\Sigma = (G, \sigma)$ where $G = (V, E)$ is an underlying graph of Σ and $\sigma: E \rightarrow \{+, -\}$ is a function called a signature function.

The positive degree of the vertex u in the signed graph is defined by number of positive edges are incident in the vertex u and it is denoted by $d^+(u)$. The negative degree of the vertex u in the signed graph is defined by number of negative edges are incident in the vertex u and it is denoted by $d^-(u)$.

The maximum positive degree of the signed graph Σ is maximum positive degree along the vertices in Σ it is denoted by $\Delta_+(G)$. The maximum negative degree of the signed graph Σ is maximum negative degree along the vertices in Σ it is denoted by $\Delta_-(G)$.

The minimum positive degree of the signed graph Σ is minimum positive degree along the vertices in Σ it is denoted by $\delta_+(G)$. The minimum negative degree of the signed graph Σ is minimum negative degree along the vertices in Σ it is denoted by $\delta_-(G)$.

Note that the sum of positive degree and negative degree of a vertex in $u \in \Sigma$ is the degree of vertex in underlying graph $G = (V, E)$.

A subset $P \subseteq V$ is a positive dominating set of Σ if every vertex $v \in V - P$ is positively dominated by at least one vertex $u \in P$. A positive dominating set is called minimal positive dominating set if no proper subset of P is a positive dominating set of Σ . The positive dominating number of Σ is the number of vertices in minimum positive dominating set of Σ . It is denoted by $\gamma^+(\Sigma)$.

A subset $N \subseteq V$ is a negative dominating set of Σ if every vertex $v \in V - N$ is negatively dominated by at least one vertex $u \in N$. A negative dominating set is called minimal negative dominating set if no proper subset of N is a negative dominating set of Σ . The negative dominating number of Σ is the number of vertices in minimum negative dominating set of Σ . It is denoted by $\gamma^-(\Sigma)$.

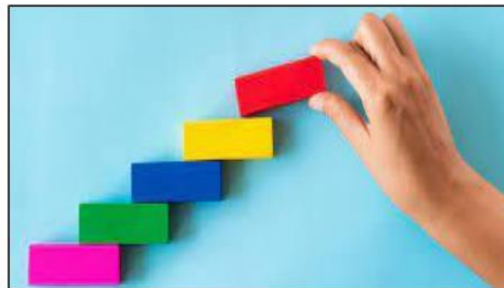
In this paper we define the edge domination parameters like positive edge domination number and negative edge domination number in signed graph. Further investigate the properties and bound of these domination parameters. In addition explain the theorem with examples.

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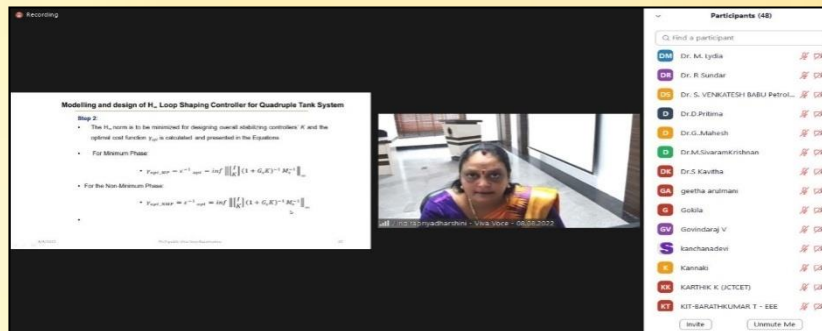
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MECH| IIC REGIONAL MEET



Dr. P. Ashoka Varthanan, HoD, Mechanical Engineering and convener of IIC, SKCET presented the Innovation and Start-up Policy of SKCET to the representatives of Southern Region Institutions at IIC Regional Meet held at PSNA Engineering College on 08.08.2022.

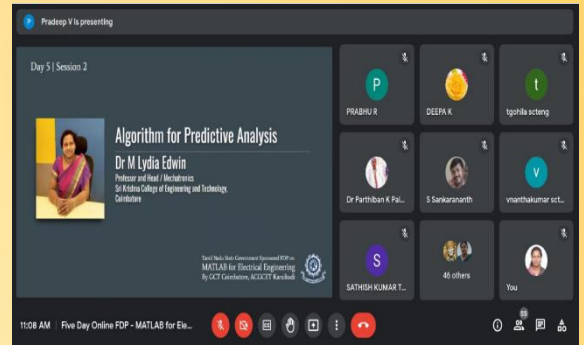
MCT | PH.D VIVA VOCE



Mrs. J. Indirapriyadharshini, Assistant Professor, Mechatronics Engineering has successfully defended her Ph.D Viva voce on the topic, “Certain Investigations on Design and Analysis of Loop Shaping Controller for Non-Linear Multivariable System with Control Challenges Using Optimization Techniques” on 08.08.2022. The examiners highly appreciated her research work.

MCT | RESOURCE PERSON - GUEST LECTURE

Dr. M. Lydia, HoD, MCT has delivered a guest lecture on the topic **“Algorithms for Predictive Analytics”** on 5.8.2022 in the TN State Government Sponsored Five-Day Online Faculty Development Program on **“MATLAB for Electrical Engineering”**, organized by the Faculty Development Training Centre, Government College of Technology, Coimbatore in association with Alagappa Chettiar Government College of Engineering and Technology, Karaikudi.



HEALTHOGRAPHICS | HEART HEALTH



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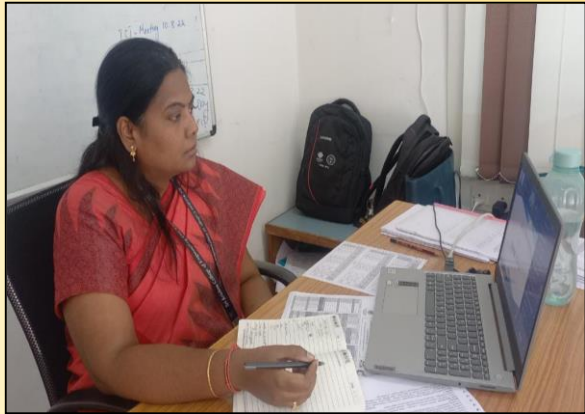
MCT|FDP ON APPLICATIONS OF AI IN INSTRUMENTATION, CONTROL & IMAGE PROCESSING



Dr. M. Lydia, HoD, MCT and Mrs.S.Nithyapriya, Assistant Professor, MCT have participated in the Five Day virtual Faculty Development Program on **“Applications of Artificial Intelligence in Instrumentation, Control and Image Processing”** organized by Vellore Institute of Technology, Vellore from 04th July to 08th July 22.

M.TECH CSE | ICT ACADEMY COORDINATORS MEETING

Dr.P.Kavitha Rani, Professor and Head, Department of **M.Tech CSE** has attended **“Launch of Learnathon and Youthtalk”** organized by ICT Academy on 10th August 2022 for the Member Institution of the ICT Academy. The session was on the launch of Nine courses in Learnathon, Rules and regulations, important dates of the event, Awards & Recognitions.



EEE | FDP ON THE ROLE OF ARTIFICIAL INTELLIGENCE IN RENEWABLE ENERGY APPLICATIONS



Dr.P.Vinothkumar, Dr.G.Radhakrishnan, Mr.R.Kavin, Ms.N.Subhalakshmi and Ms.N.Subhashini, faculty members of EEE Department have participated in the five days online Faculty Development Program on “**The Role of Artificial Intelligence in Renewable Energy Applications**” organized by the Department of Electrical & Electronics Engineering, KPR Institute of Engineering and Technology, Coimbatore.

ECE| FDP ON ELECTRONICS PACKAGING AND TESTING



Dr.V.Nandalal and Dr.V.R.Balaji, Professors, **ECE** attended 6 days FDP on **“EC8005-Electronics Packaging and Testing”** sponsored by Anna University and organized by KPR Institute of Engineering and Technology, from 25.07.2022 to 31.07.2022.

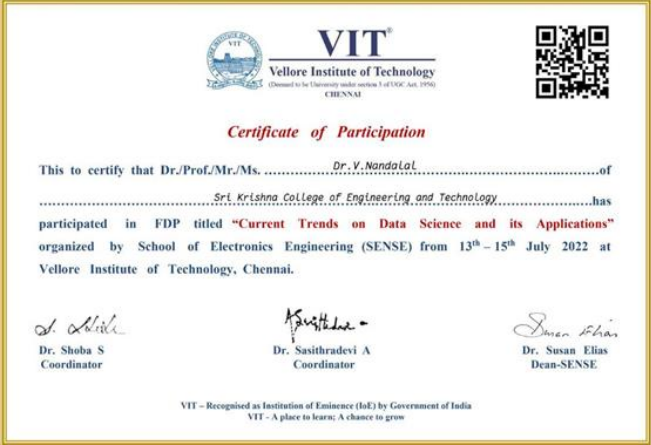


MECH| FDP ON A NEW ERA OF MANUFACTURING CHALLENGES AND OPPORTUNITIES

Dr. V P Srinivasan, Assistant Professor, **Mechanical Engineering** has actively attended one week Faculty Development Program on **‘A New Era of Manufacturing Challenges and Opportunities’** organized by the Department of Mechanical Engineering, D Y Patil College of Engineering and Technology from 25.07.2022 to 30.07.2022.

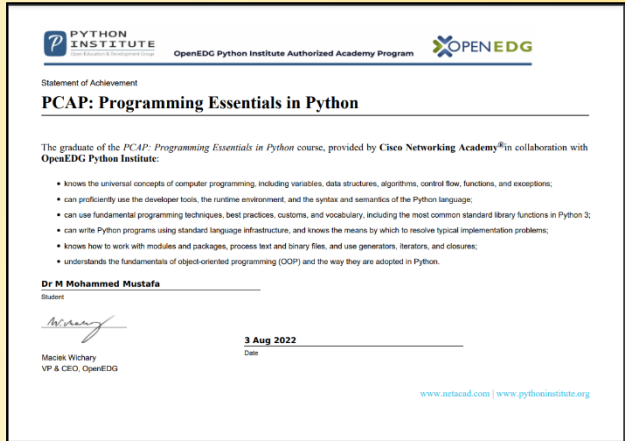
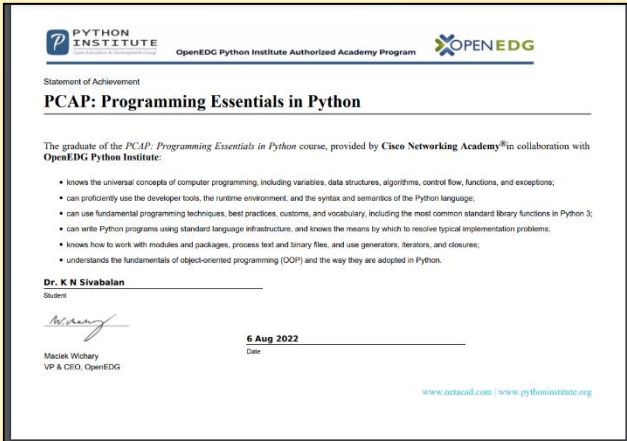


ECE| FDP ON CURRENT TRENDS ON DATA SCIENCE AND ITS APPLICATION



Dr. V. Nandalal, Professor, ECE attended 3 days FDP on “**Current Trends on Data Science and its Applications**”, sponsored by Anna University, organized by Vellore Institute of Technology from 13.07.2022 to 15.07.2022.

IT|PROGRAMMING ESSENTIALS IN PYTHON



Dr. K.N. Sivabalan and **Dr. M. Mohammed Mustafa**, faculty members of **Information Technology** have successfully cleared the exam on “**PCAP: Programming Essentials in Python**” provided by Cisco Networking Academy in collaboration with Open EDG Python Institute.

S&H | NITTT CERTIFICATION



Ms. Revathy P, Mr. E. Karuppusamy, Dr. S. Packiaraj and Dr. J. Jayaprakash, Assistant Professors, Department of Science & Humanities have successfully completed NITTT Eight Module Course under NITTTTR offered by AICTE.

ECE| FDP ON 5G & IOT



Dr.V.R.Balaji, Professor, ECE department, attended an AICTE sponsored FDP on “**5G & IOT**” organized by NITTTR, Chandigarh, from 18.07.2022 to 22.07.2022.

AI & DS| INFOSYS CERTIFICATION

Mr.G.S.Pugalendhi, Assistant Professor, Department of **Artificial Intelligence and Data Science** has completed a course on “**Creating Engagement with Virtual Reality**” on 21.07.2022 offered through Infosys.





CONFERENCE PRESENTATION



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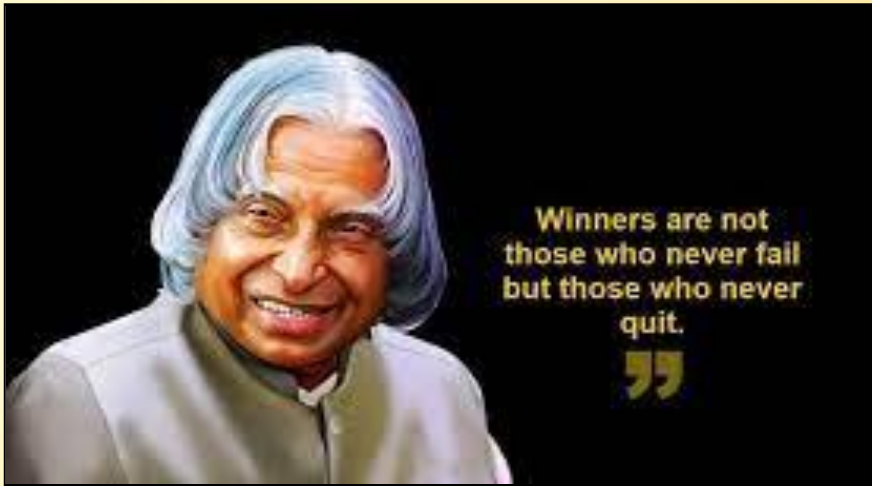
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S&H| CONFERENCE PRESENTATION



Mr. Pandiyan K, Assistant Professor, Department of Science and Humanities has presented a paper entitled "The Existence and Uniqueness of Fractional Integrodifferential Equations with Interval Impulses and Infinite Delay" in the International Conference on Recent Strategies in Mathematics and Statistics (ICRSMS2022) organized by Stella Maris College in collaboration with IIT Madras from 19th– 21st May, 2022.

LEGENDARY INSIGHTS



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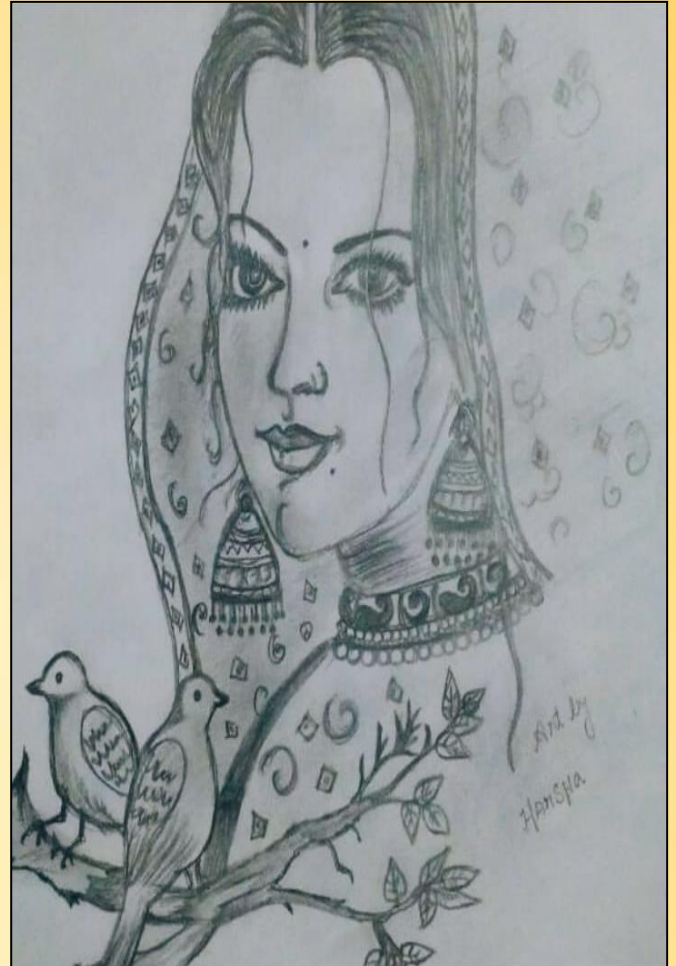


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M.TECH CSE | PENCIL ART



HARSHA VARTHINI N S, III M Tech CSE

*Creative
Corner*



 HAPPY
INDEPENDENCE
 **DAY**