

5th - 9th December 2022



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AI&DS | COURSERA CERTIFICATION



G.Jagapraveen and Subash K, students of **Second** year **AI & DS** have completed a course on **Ethics, Technology and Engineering,** Eindhoven University of Technology, offered through Coursera.







CIVIL | GUEST LECTURE ON STARTUP TO ENTREPRENEURSHIP



Research & Innovation Cell (R&I) of the Department of **Civil Engineering** in association with the **Institution Innovation Council (IIC)** organized a session titled **"Startup to Entrepreneurship"** on 30th November 2022.

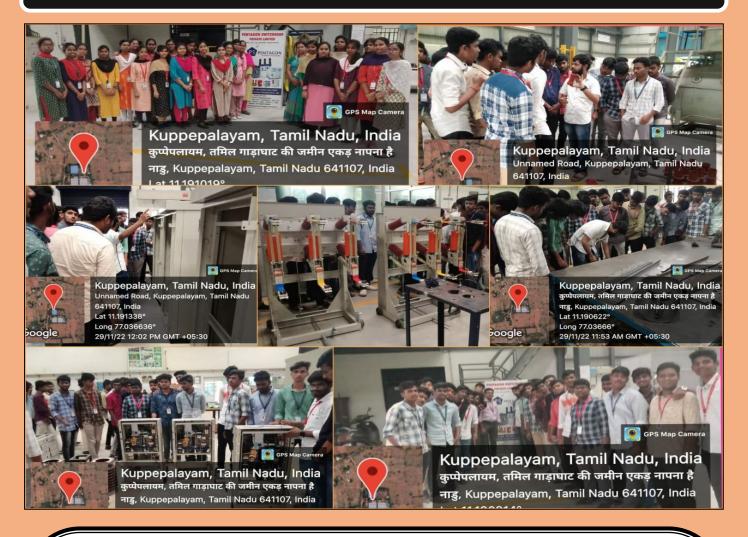
Er.Dhanasekhar Manickaraj, Proprietor, Dhanam Constructions was the Resource Person.

Key Highlights:

- Skills required to become a Successful Entrepreneur
- Role of Innovation in start up success
- Hurdles involved in different stages of Business Development
- Role of Morale and Ethics in a journey



EEE | INDUSTRIAL VISIT



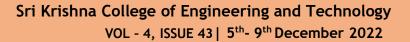
IIC of SKCET in association with the **Department of Electrical and Electronics Engineering** organized an Industrial visit for the **Second** year EEE Students to **Pentagon Switchgears Private Limited**, Coimbatore on 29.11.2022.

Key Take-aways:

- Real time demonstration of Switchgears.
- Various types of Circuit Breakers.
- Working of Current and Potential Transformers.
- Manufacturing and Testing of CTs and PTs.
- Fabrication and Designing of Switchgear Panels.

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EEE | NITTTR SHORT TERM COURSE – DAY 1



Department of **EEE**, SKCET as Remote Centre, **NITTTR** - Chandigarh organized a five days Short Term Course on 'Research Scope in Electric Vehicles' from 05.12.2022 to 09.12.2022. More than 55 faculty members and Research scholars from various disciplines participated in the STC.

Session 1

Resource Person: Dr.Shimi S.L,Electrical Engineering, NITTTR, Chandigarh.

Topic: Electric Vehicle Basics and Standards

Session Highlights:

- Need of EV Technology
- Vehicle to Grid & Vehicle to Home Technology
- Drive and Storage Technologies
- Electric Machinery Tools and Storage Systems.



EEE | NITTTR SHORT TERM COURSE - DAY1



Session 2

Resource Person: Dr.Shimi S.L, Electrical Engineering, NITTTR, Chandigarh.

Topic: Research scope in EV Power Quality studies

Session Highlights:

- Challenges faced by EV
- Integration of EV to Grid
- Charging Technologies and Power Converters' role
- Integration of Renewable and EV



EEE | NITTTR SHORT TERM COURSE -DAY 1



Day 1_Session 3

Resource Person: Ajay Godara, Director, Enovation Lab, Chandigarh

Topic: EV Modeling - Simulation and Hardware Implementation

Session Highlights:

- Vehicle Components and Architecture
- Design parameters for EV
- Modeling parameters for EV Design
- Mathematical modeling of EV and Motor drive



EEE | NITTTR SHORT TERM COURSE -DAY 2



Session 1

Resource Person: Mr.Sameer Singh, R&D Engineering - OPAL RT, Bangalore.

Topic: DC Fast Charger and Battery Management System

Session Highlights:

- Challenges in Fast Charger
- Harmonics & Supra Harmonics
- Charging Technologies
- Light Flickers
- BMS Requirements and Design
- Hardware in loop BMS



EEE | NITTTR SHORT TERM COURSE - DAY 2



Session 2

Resource Person: Mr.Sameer Singh, R&D Engineering - OPAL RT, Bangalore.

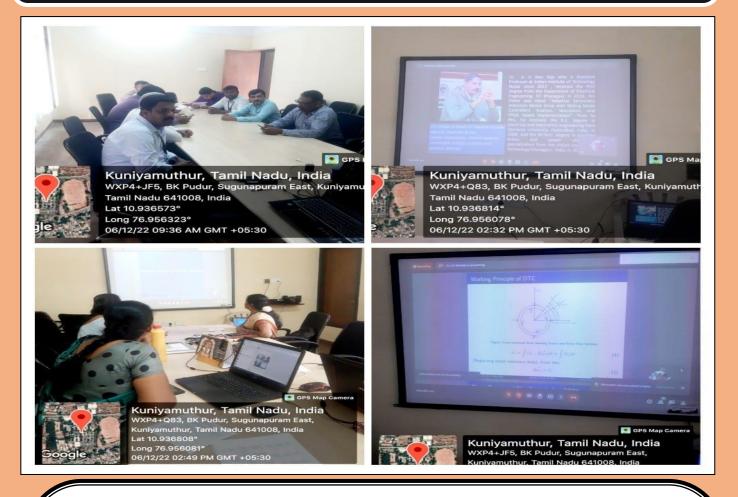
Topic: Hands on Training using OPAC-RT

Session Highlights:

- Battery Management in Realtime Simulation
- Simulation Parameters
- I/O Configuration with Automatic Code Generation
- Intersection of Embedded System Faults
- BMS Requirements and Design
- Hardware and Loop BMS



EEE | NITTTR SHORT TERM COURSE -DAY 2



Session 3

Resource Person:Dr. Ravi Teja, Department of EEE, IIT Ropar

Topic: Electric Drives for EVs

Session Highlights:

- Selection of Drives for EVs
- Control Techniques for Drives
- Induction motor V/F control
- Direct Torque and Flux Control
- Vector Control for induction motor
- Control Technique for SRM



SOM | PERFORMANCE ENHANCEMENT PROGRAM THROUGH PERSONAL AND PROFESSIONAL EFFECTIVENESS



School of Management organized two days Performance Enhance Program through Personal and Professional Effectiveness. Professor James GS Emeritus, Loyola College, Director, Step up Training Initiative, Chennai and Mr. Soloman Victor Stanley, Founder and Director, started Consulting Inc. Chennai was the Resource Persons. The overall sum up of the program was to make the students adapt themselves to Change through critical thinking, lateral thinking and alternate thinking.



S&H | EXTENDED HOUR ACTIVITY



வாழ்வியல், Tamil Oration competition for the First year BE/B.Tech/M.Tech CSE students to create an opportunity to share and demonstrate a piece of knowledge and also to boost up selfconfidence.



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R&D | JOURNAL PUBLICATION | CIVIL

Experimental Investigation on Strength and Durability Aspects of Earthen Blocks Reinforced with Jute Fibres

A. Jesudass^{1,a}, V. Gayathri², R. Geethan¹, M. Gobirajan¹ and M. Venkatesh¹

¹Department of Civil Engineering, Sri Krishna College of Engineering and Technology, Coimbatore 641008, India. ²Department of Civil Engineering, Kumaraguru College of Technology, Coimbatore -641049, India

a)Corresponding author: jesudassa@skcet.ac.in

Abstract. Earthen blocks refer to blocks made out of earth (calculated percentage of clay, silt, sand and gravel). The earth is compressed at high pressure with the help of either manual or automatic' semi-automatic press. Since the blocks are unfired, it is stabilised with either line or cement. Studies on performance of the unfired earthen block in comparison with the conventional blocks is gaining momentum. This study aims at investigating the strength and durability properties of the earthen blocks reinforced with jute fibres. The jute fibres were mixed at a ratio of 0.25%, 0.5%, 0.5%, 0.75% and 1 % with the earth (Gravel + sand = 45%, Clay + Silt = 45%). The mix was stabilized with 10% of lime. Text was conducted on strength parameters (compression & tensile) and durability parameters (water absorption, erosion & wearing, shrinkage & drying time). It was found that with the inclusion of jute fibres, the tensile strength and compressive strength of the block showed an increase of 30 – 40 %. The optimum percentage of fibre was found to be 0.5% as higher percentage of fibre increases the water content and voids in the blocks. The erosion and the earing resistance of the block increased with inclusion of jute fibres, Since jute is a natural fibre, its natural decomposition is a challenge that needs to be addressed in the future studies. Studies on fibre treatment and its orientation can be future work.

Keywords: Earthen blocks, Jute fibre, Sustainable material.

Mr.A.Jesudass, Assistant Professor, Department of Civil Engineering has published a research article titled "Experimental Investigation on Strength and Durability Aspects of Earthen Blocks Reinforced With Jute Fibres" in the AIP Conference Proceedings.

R&D | PAPER PUBLICATION | ECE

Dr.A.Albert Raj, Professor, Department of ECE has published a Scopus indexed Journal paper titled "Design of Prosthetic Hand to Improve the Lifestyle of Pediatric Partial Hand Patients" in YMER Journal, ISSN: 0044-0477, volume 21, issue 11,pp. 1372-1377.





R&D | PAPER PUBLICATION | ECE

YMER || ISSN : 0044-0477

SMART HUMAN BODY MONITORING SYSTEM USING ARDUINO

Karthi. SP¹, Nandha Kumar D², Kavin Prasath K³, Manishkumar V⁴, Nishikanth S⁵

> ¹ Assistant Professor Department of Electronics and Communication Engineering Sri Krishna College of Engineering & Technology, Coimbatore karthisp@skeet.ac.in ²UG Scholar Department of Electronics and Communication Engineering Sri Krishna College of Engineering and Technology, Coimbatore 19eue086@skeet.ac.in ²UG Scholar Department of Electronics and Communication Engineering Sri Krishna College of Engineering and Technology, Coimbatore 19eue067@skeet.ac.in ⁴UG Scholar Department of Electronics and Communication Engineering Sri Krishna College of Engineering and Technology, Coimbatore 19eue067@skeet.ac.in ⁴UG Scholar Department of Electronics and Communication Engineering Sri Krishna College of Engineering and Technology, Coimbatore 19eue092@skeet.ac.in ⁴UG Scholar Department of Electronics and Communication Engineering Sri Krishna College of Engineering and Technology, Coimbatore 19eue092@skeet.ac.in 19eue092@skeet.ac.in 19eue092@skeet.ac.in

ABSTRACT The healthcare monitoring system is one of the most important systems from the last decade. It is emerged as technology oriented system. Due to lack of timely medical care to the individuals who are suffering from various diseases and they become ill and it leads to unexpected death of the patients. All people in this COVID condition are very concerned about maintaining their health. Our initiative is set up to provide essential medical care without a doctor's assistance. IoT is quickly transforming the healthcare sector thanks to a proliferation of new healthcare technology start-ups. We created the Human Body Monitoring System for this project. GSM is the communication tool utilized in this project. Both the surrounding temperature and the heart rate could be read by this instrument. It continuously measures the ambient temperature and pulse rate and sends SMS updates. The project's many features are implemented by the Arduino Sketch running on the device. These include reading sensor data, stringifying them, feeding them to the device, and displaying measured pulse rate and temperature on a character LCD. Mr.S.P. Karthi, Assistant Professor, Department of ECE has published a Scopus indexed Journal paper titled "Smart Human body monitoring system using arduino" in YMER Journal, ISSN: 0044-0477, volume 21, issue 11,pp. 1366-1371.

R&D | PATENT PUBLICATION | ECE

Dr.V.Karthik, Assistant Professor,
ECE has filed and published a patent
titled "ML BASED AUTOMATIC
ABNORMAL ENVIRONMENT
DETECTION USING SMART
SURVEILLANCE IN BANKS". The
application number of the patent is
202241065428.

INTELECTUAL ORDERDINGLARCAVINGER.nln PROPERTY INDEX Application Details		
APPLICATION NUMBER	202241065428	
APPLICATION TYPE	ORDINARY APPLICATION	
DATE OF FILING	15/11/2022	
APPLICANT NAME	1. ARUNA 2. Kathirasan K 3. Salkai. MAJUMDER 4. Dr. ARUNAMB BISWAS 5. Dr. KITOMAB BISWAS 5. Dr. KITOMABajan 6. Nirmal Mungale 7. Dr. 5. Sivaganesan 8. Dr. V. Karthik 9. Vijay Mohan Shrimal 10. Madhay sharma	
TITLE OF INVENTION	ML BASED AUTOMATIC ABNORMAL ENVIRONMENT DETECTION USING SMART SURVEILLANCE IN BANKS	
FIELD OF INVENTION	COMMUNICATION	
E-MAIL (As Per Record)	arunavj2@gmail.com	
ADDITIONAL-EMAIL (As Per Record)		
E-MAIL (UPDATED Online)		
PRIORITY DATE		
REQUEST FOR EXAMINATION DATE		
PUBLICATION DATE (U/S 11A)	25/11/2022	



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CIVIL | TUTOR WARD MEETING



Tutor Ward Meeting was conducted on 30th November 2022 for the Second

year Civil Engineering Students.

The following points were discussed in the meeting,

- Course syllabus completion.
- Class Attendance.
- Internal marks assessment for all courses.
- Student participation in competitions.



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CSBS | RESEARCH SUPERVISOR RECOGNITION

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Dr. C.UMARANI DIRECTOR		Telephone :+91-44-2235 7366/2235 0361 Fax :+91-44-2220 1213 Embil : dirresearch@annauniv.edu dirresearch@gymail.com
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Lr. No: SUPR/AR2		1 0 2 4 2 Date : 02.12.2022
То		
Dr. Ignisha Rajathi G		
Associate Professor		
Department of Compu	ter Science and Engineering Engineering and Technology	
Kuniamuthur, Coimbat	crigineering and Technology ore-641008	
Sir/Madam,		
Sub : Ph.D.Progr Ref : Your applic	amme - Supervisor Recognition - Approv ation for Supervisor Recognition.	red - Orders - Issued.

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Further for any	correspondence in future quote 4140023	for reference.
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	mputer Science and Engineering	alicha
Sri Krishna Colleg Kuniamuthur, Coli	e of Engineering and Technology	

Dr.G.Ignisha Rajathi, Associate Professor, Computer Science and Business Systems has been recognized as a Research Supervisor under Anna University, Her Area of specialization is "Medical Image Processing, Soft Computing".

MECH | GUEST EDITOR IN WOS AND SCOPUS INDEXED JOURNAL

Dr.C.SamsonJeroldSamuel,AssociateProfessor,MechanicalEngineeringhas been appointed asGuestEditor for the Special Issue'DielectricandPyroelectricForElectronicDeviceApplicationinCoatings'.ItisWoSandScopusindexed journal with anImpactFactor:3.236.The journal isalsoindexedinAnnaAnnexure – 1.ImpactScopus

coatings	
Submit to Special Issue	
Submit Abstract to Special Issue	
Review for Coatings	
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 Special Issues 	
 Topics 	
Sections & Collections	
Article Processing Charge	
Indexing & Archiving	
Editor's Choice Articles	
Most Cited & Viewed	
 Journal Statistics 	
 Journal History 	
 Journal Awards 	
Society Collaborations	

Special Issue "Dielectric and Pyroelectric Films for Electronic Device Applications"

Mechanical Engineering, Sri Krishna College of Engineering and Technology, Coimbatore 841008, Tamil Nac

Interests: nanocomosites: coatinos: tribologi







EEE | STC ON EMERGING TRENDS AND TECHNICAL DEVELOPMENTS IN AUTOMATED MACHINES



Dr.S.Sivaranjani and Dr.P.Vinothkumar, Associate Professor, EEE Department have participated in One Week On-line Short Term Course (STC) on "Emerging Trends and Technical Developments in Automated Machines" conducted by the Department of Mechanical Engineering, Sreenidhi Institute of Science and Technology, Hyderabad.

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EEE | SEMINAR PARTICIPATION



Mr.N.Loganathan, Assistant Professor, **EEE** Department has participated in a Seminar on "Importance of Calibration and Concepts of Uncertainty Measurements as per ISO/IEC 2017 17025: Standards" Conducted by IE (I), Coimbatore Local Centre in association with the Department of Electronics & Instrumentation Engineering, Kumaraguru College of Technology.

EEE | CONFERENCE PRESENTATION

Ms.R.Geethamani, Assistant Professor, **EEE** Department along with Rithish Guru.G, S.Shajan, S.Sharvesh Prajin & P.Suriya students of Final year EEE have presented and published a paper entitled "Design and Development Reliable of and Automated Hydroponics System" in the 6th International Conference on Electronics. Communication and Technology (ICECA Aerospace 2022) held at RVS Technical Campus, Coimbatore.





CSE | RECENT RESEARCH CONVERGENCE IN AI & IOT



Mr.M.Vengateshwaran, Assistant Professor, Department of CSE has participated in the Faculty development program on "Recent Research Convergence in Artificial Intelligence and Internet of Things" organized by Bon Secours College for Women during 21.11.2022 to 25.11.2022.

IT | FDP ON BLOCKCHAIN TECHNOLOGY



Dr. S.Durga and Ms.V.Sindhu, faculty members of **IT** have attended three days of FDP on "**Blockchain Technology**" from 22.11.2022 to 24.11.2022 conducted by the Department of M.Tech CSE in association with Virtusa, SKCET,Coimbatore

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IT | FDP ON MATLAB AI AND OPTIMIZATION TECHNIQUES

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Certificate	Certificate
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SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY, COIMBATORE TAMIL NADU	SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY, COMBATORE TAMIL NADU
Participated in the AICTE Recognized Faculty Development Programme on	Participated in the AICTE Recognized Faculty Development Programme
on MATLAB - Artificial Intelligence and Optimisation Techniques	on
Conducted by	MATLAB - Artificial Intelligence and Optimisation Techniques
Electrical Engineering Department	Conducted by Electrical Engineering Department
from	from
21/11/2022 to 25/11/2022 (One Week)	21/11/2022 to 25/11/2022 (One Week)
at	at
Sri Krishna College of Engineering & Technology, Coimbatore	Sri Krishna College of Engineering & Technology, Colmbatore
Coordinator Director	Coordinator Director
National Institute of	National Institute of
Technical Teachers Training and Research Chandigarh	Technical Teachers Training and Kesearch Chandigarh
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DR.M.ARUNACHALAM	S DEEPA KANMANI
SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY, COIMBATORE TAMIL NADU	SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY, COMBATORE TAMIL NADU
Participated in the AICTE Recognized Faculty Development Programme	Participated in the AICTE Recognized Faculty Development Programme
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MATLAB - Artificial Intelligence and Optimisation Techniques	Conducted by
Conducted by	Electrical Engineering Department
Electrical Engineering Department from	from
21/11/2022 to 25/11/2022 (One Week)	21/11/2022 to 25/11/2022 (One Week)
at	*
Sri Krishna College of Engineering & Technology, Coimbatore	Sri Krishna College of Engineering & Technology, Coimbatore
~	the the
Coordinator Director	Coordinator Director

Following faculty members of the Department of **IT** have participated in the AICTE Recognized FDP on "**MATLAB Artificial Intelligence and Optimization Techniques**" by Electrical Engineering Department, from 21.11.2022 to 25.11.2022 at SKCET, Coimbatore.

Dr.G.Edwin Prem Kumar	Ms.R.Janani
Dr.Arunachalam	Dr.S.Deepa Kanmani
	-



ECE | FDP ON MATLAB ARTIFICIAL INTELLIGENCE AND OPTIMIZATION TECHNIQUES





ECE | FDP ON MATLAB ARTIFICIAL INTELLIGENCE AND OPTIMIZATION TECHNIQUES



Following faculty members of the Department of **ECE** have completed one week AICTE recognized Faculty Development Program from 21.11.2022 to 25.11.2022 on the title "**MATLAB Artificial Intelligence and Optimization Techniques**" certified by NITTTR, Chandigarh organized by Electrical Engineering Department, SKCET.

Faculty members:

- Dr. Thirumarai Selvi
- Ms. K. Suriya
- Ms. N. Nanthini
- Dr. S Jayanthi Shree
- Ms. Praseedha
- Ms. U. Vanitha
- Dr. Rejina Parvin
- Ms.D. Devi
- Ms. K. Priyadharsini



CSE | FDP ON MATLAB AI AND OPTIMIZATION TECHNIQUES

Centificate No: ICT-18797/22	Certificate No: ICT-187
National Institute of	National Institute of
Technical Teachers Training and Research Chandigarh	Technical Teachers Training and Research Chandigarh
MINISTRY OF EDUCATION, GOVERNMENT OF INDIA	MINISTRY OF EDUCATION, GOVERNMENT OF INDIA
Certificate	Certificate
This is to certify that	This is to certify that
DR RAMESH K	POORANAM N
SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY,	SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY,
COIMBATORE TAMIL NADU	COIMBATORE TAMIL NADU
Participated in the AICTE Recognized Faculty Development Programme	Participated in the AICTE Recognized Faculty Development Programme
on	on
MATLAB - Artificial Intelligence and Optimisation Techniques	MATLAB - Artificial Intelligence and Optimisation Techniques
Conducted by	Conducted by
Electrical Engineering Department	Electrical Engineering Department
from	from
21/11/2022 to 25/11/2022 (One Week)	21/11/2022 to 25/11/2022 (One Week)
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Sri Krishna College of Engineering & Technology, Coimbatore	Sri Krishna College of Engineering & Technology, Coimbatore
Coordinator Director	Coordinator Director
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har a	Street.

Dr.K.Ramesh Professor, Ms.N.Pooranam Assistant Professor, Department of CSE have participated in one week AICTE recognized Faculty development program on "MATLAB Artificial Intelligence and Optimization Techniques" certified by NITTTR, Chandigarh organized by Electrical Engineering Department, SKCET during 21.11.2022 to 25.11.2022.



CSE | INFOSYS SPRINGBOARD CERTIFICATION



COURSE COMPLETION CERTIFICATE

The certificate is awarded to Vijaya G

for successfully completing the course

Introduction to Deep Learning

on Wednesday, December 7th 2022



Congratulations! You make us proud!

Thirumala Arohi Senior Vice President and Heac Education, Training and Assessment Infosys Limited

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/	Dr.G.Vijaya	Professor,
	Department	of CSE has
	successfully	completed the
	course on	"Introduction to
	Deep Lear	ning " by Infosys
	Springboard	during December
	2022.	

AI&DS | INFOSYS SPRINGBOARD CERTIFICATION



Mr.K.Balaji, Assistant Professor, **AI&DS** has completed a course on **Introduction to Data Science and Introduction to Artificial Intelligence** by Infosys Spring board from 14.11.2022 to 18.11.2022.

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MCT | FDP ON MATLAB AI AND OPTIMIZATION **TECHNIQUES**



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M.TECH CSE | FDP ON MATLAB AI AND OPTIMIZATION TECHNIQUES



Mr Pradeep G, Ms Manohari B and Ms Dureen T Rayen, Assistant Professor, Department of M.Tech Computer Science and Engineering had participated in 5days FDP on "MATLAB – Artificial Intelligence and Optimization Techniques" conducted by National Institute of Technical Teachers Training and Research , Chandigarh from 21st to 25thNovember 2022.

M.TECH CSE | GUVI CERTIFICATION



Mr Pradeep G, Assistant Professor, Department M.Tech Computer of Science and Engineering has completed the course "Game Development PyGame" using organized by GUVI on 6th December, 2022.



MECH | 5thEDITION OF CONFERENCE ON EFFECTIVE METAL CUTTING



Dr.K.P.Yuvaraj and Dr.R.Ben Ruben, Assistant Professors, Mechanical Engineering has attended the 5th edition of Conference on Effective Metal Cutting organized by the CII Coimbatore Chapter at Hotel Residency Coimbatore. The conference theme was "Challenging & Opportunities in Modern Day CNC". Eminent Speakers from leading Machine tool manufacturing organization delivered their keynote lectures and discussions were related to the challenges faced by the Metal Cutting Industries in the Industry 4.0.



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S&H | CONFERENCE PRESENTATION



Mr. Pandiyan K, AP, Department of Science and Humanities has participated and presented a paper entitled, "Necessary Conditions for the Existence of Triple Positive Solutions to Fractional Integro differential Boundary Value Problems at Resonance" in the International Conference on Recent Trends in Science, Engineering & Technology (ICRTSET-2022), organized by PSG College of Arts & Science, Coimbatore.