

14th – 22nd April 2022

CLASSROOM BLOCK

Editor-in-Chief Dr.J.Janet Principal **Co-Editor**

TIN

Dr.S.Venkata Lakshmi – AI & DS **Editorial Team**

Mr.S.Sureshkumar – CSE, Mrs.S.MaryFabiola - S&H, Mrs.K.Ananthi – MCT



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ECE | KURUKSHETRA 2022



Second year ECE students have participated in various events in Kurukshetra 2022 organized by Anna University CEG campus. The details of the event wise participation are as follows:

Name of Event	Number of students participated
Workshop on Blockchain	07
Workshop on Drone Design	10
Workshop on Hand Gesture Robotics	30
Workshop on Stock market Analysis and Creative thinking	02
Project Expo	02



MCT | WORKSHOP ON 3D PRINTING & SOLIDWORKS



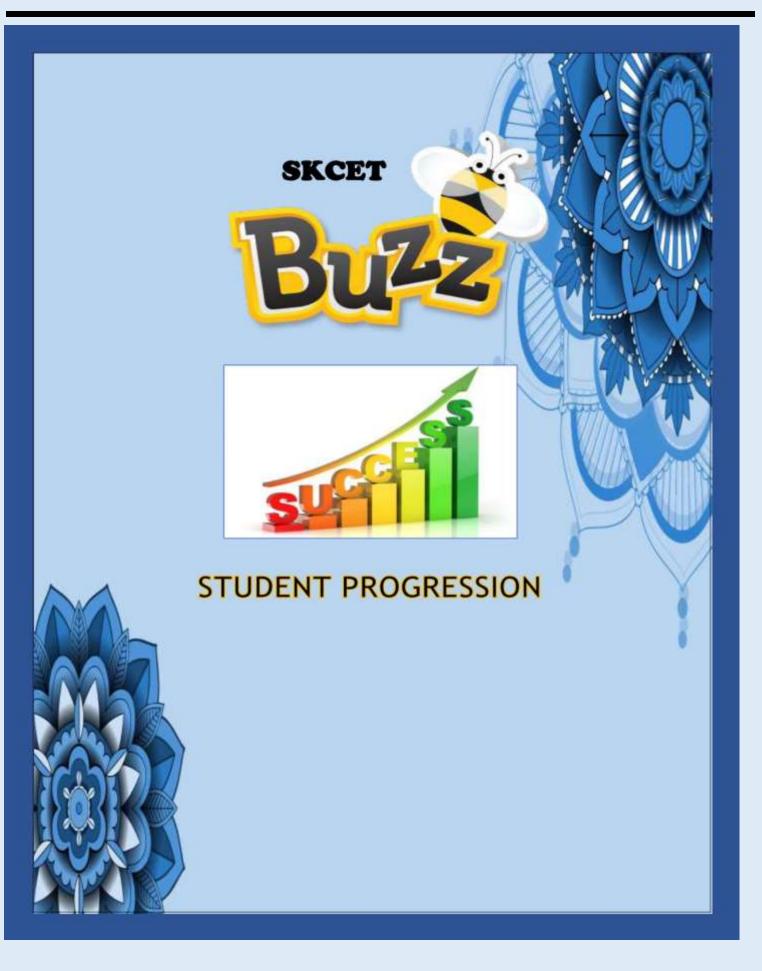
H.S.Kishoor, student of Second yearMCT has attended a workshop on "3Dprinting and solid works" organizedby Kongu Engineering College on07.04.2022.

MCT | WORKSHOP ON TECHNOLOGY ENHANCEMENT IN FORD ECOSPORT VEHICLE

H.S.Kishoor, student of Second year MCT has attended a one day workshop on "Technology Enhancement in Ford Ecosport Vehicle (US Export Model) organized by the Department of Automobile Engineering, Hindustan College of Engineering and Technology on 09.04.2022.







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CSE | HIGHER STUDIES @ TOP TIER UNIVERSITIES



April 16, 2022

Addhye Menon Sanii 36A1, College Road Cooncor, Tamii Nadu 643102 India

Dear Addition.







It is with a great sense of pride that I welcome you to the University of Marytanda Graduate School. The university is committed to offering programs that combine rigorous academic and technical preparation in a nurturing, diverse, and engaging environment. Our graduate programs are designed to prepare graduates for a wide range of opportunities in local, national, and international settings.

I am pleased to offer you admission to the Mader of Engineering program in Cybersecurity - Professional for Fell 2022. This admission comes with the condition that you complete an <u>Advanced English Writing Course</u> during your second semaster of study. You may subnit a new test score to determine if your English course placement can be charged. The deadline for submitting a new test score is November 30, 2022. Test scores received by the Graduate School after that date will not be considered.

Your tuttion and charge-differential classification: Out-of-State

Your condition(s) of enrol/ment.

- · Completion of the Advanced English Witting Course during the second semester of study.
- Bubmission of final official bacceleurests transcript(s) from all previous institutions by the end of the first semaster of study.

Each required transcript (except from the University of Maryland College Park) must show the data and confernal of the awarded degree. If your transcript does not state that a degree was granted, an attested copy of your diplomaldegree certificate is required. Future registration will not be possible without the receipt of these documents.

Official electronic transcripts may be sent directly from your institution to the following email address: gradechool@und.edu. Otherwise, you may neal your official unopened/sealed transcript to the following address:

University of Maryland Enrollment Service Operations ATTN: Transcript for Oreduste Admission Room 3125 Mitchell Building College Park, Maryland 20742, USA

Please follow each step in the <u>Character for New Students</u> to prepare you for your first sensetion at the University of Marytand. All full-time graduate students are required to have health insurance. If you will not be covered under someone else's plan (a permit or spoule), please explore your <u>health insurance</u> colors before the term starts. If you believe that the fullion and charge-differential classification is incorrect, please contact the Residency Classification Office (resclass(f)und.edu).

It is important to accept or decline this admission offer. Your University ID (URD) is 119341452. You will need this number for registration and other administrative purposes. The <u>international Student and Scholar Dervices</u> office will contact you directly regarding the vise process.

Again, we welcome you to the University of Maryland, with our best wishes for a successful and rewarding graduate experience.

The Graduate School +Lee Building + College Park, MD 20742 + gradschool und edu

AdithyaMenon S, Yogeshwar B K and Harish Shanmugam J, students of Final year CSE have got an excellent opportunity to pursue Masters on "Cybersecurity, Data and Computational Science" at Top Tier Universities like Washington University, Saint Louis (USA), University of Maryland (USA), University of Queensland (Australia) ,Monash University (Australia),University College of Dublin (Ireland) and Dublin University (Ireland).



EEE | SPORTS ACCOLADE



S. Ajay, student of Third year EEE has bagged a Gold Medal in the National Level Open Karate Championship, India – 2022 conducted by Indian Okinawa Goju – Ryu Karate Do Association on 10.04.2022 at Chennai. He has also secured Bronze Medal under Mens - 19 years category in *Kumite* Event. He has also been representing our country in various International Tournaments.







ECE | KRISHNECS-2K22 INAUGURATION





Krishnecs 2k22, a National Level Technical Symposium sponsored by IEEE Madras Section Student Chapter was inaugurated on 22.04.2022 with a presage to provide a commodious belvedere for young innovative minds to present their ideas and sharpen their technical skills.

Dr.V.Nandalal, Professor, Department of **ECE** welcomed the gathering. **Dr.S.Sophia**, Head of the Department , **ECE** shared insightful thoughts on how students should hone their technical skills and foresee the futuristic technologies. **Mr.AR.C.Arunachalam**, Student Coordinator, Department of ECE, delivered the Vote of Thanks.



ECE | KRISHNECS-2K22 INAUGURATION-GLIMPSES







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CSE | INAUGURATION OF CRYOSAT - CSE ASSOCIATION



CRYOSAT, CSE Association was inaugurated by our Principal Madam **Dr.J.Janet** on 21.04.2022 at BS-03 hall. The chief guest of this event was **Mr .Akshay V, Founder, Ed Zola, Coimbatore**. He motivated the students through his inspiring words "The way towards the success is not with the skills that we are born with but with the skills we develop through".

Highlights of the Event:

- ✤ Launch of CRYOSAT
- ✤ Release of the magazine- CRYOFEED first edition
- Introduction of CSE Students office bearers. The crew members presented their roles on the stage.



AI&DS | CAMPUS CONNECT PROGRAMME



Department of Artificial Intelligence and Data Science organized a Campus Connect Seminar on "How to Process and Work on Data" for SKCET Center of Excellence Deep Vision students. Session was handled by **Dr.A.Sajeev Ram,** Associate Professor, **AI&DS** on 07.04.2022.The pointers of discussion were: Process of Data, How data patterns are useful, Types of data science, Data Science life cycle, AI vs ML vs Data Science.



ECE | GUEST LECTURE ON CIRCUIT DESIGN AND DEVELOPMENT OF PCB



Department of ECE organized a Guest Lecture on "Circuit Design and Development of PCB" for the Second year ECE students on 07.04.2022. The Resource Person for the session was Mr.K. Kaliraj, Technical Engineer, Livewire, Coimbatore. PCB basics, circuit design, implementation of circuit traces on PCB, overview of Product Development and Gerber File generation were the session take a ways.

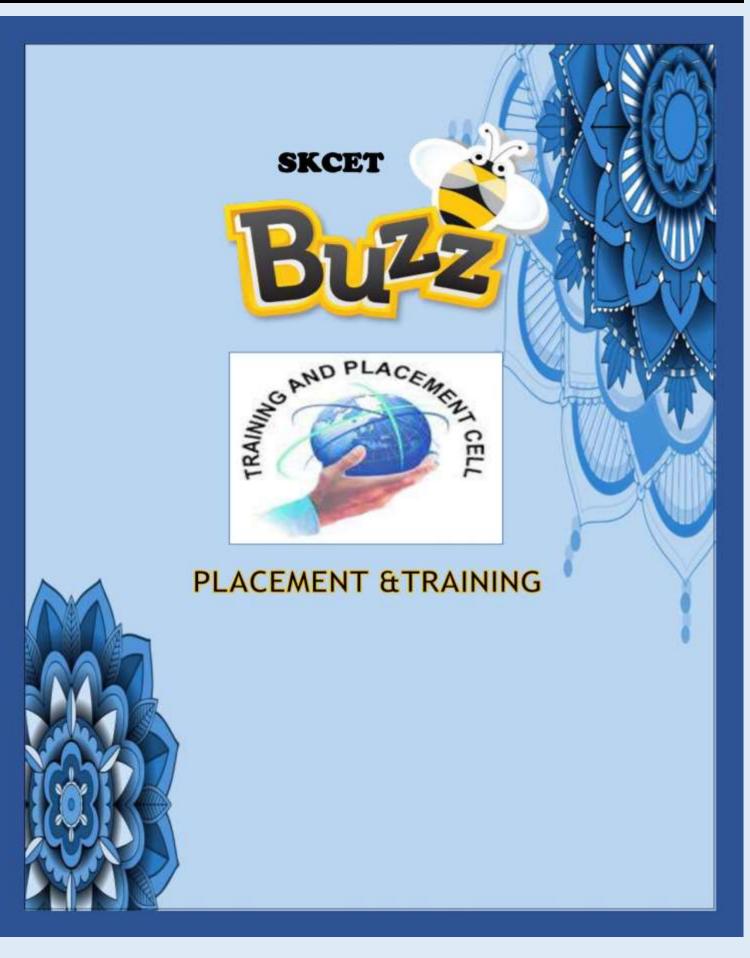


AI & DS | CAMPUS CONNECT PROGRAMME



Department of Artificial Intelligence and Data Science organized a Campus Connect Seminar on "Taking First Steps towards Machine Learning" for SKCET Center of Excellence Deep Vision students. Session was handled by Dr.T.Sujatha, Associate Professor, AI& DS on 11.04.2022. The pointers of discussion were: Understanding of Traditional Programming and Machine Learning, Role of Machine Learning in Research Applications, Learning Methods, Machine Learning Algorithms, Importance of Data quality, Real Time Examples and Working with Dataset.







SKCET | TESTIMONIAL BY PLACED STUDENTS



I am fortunate to be a part of SKCET where I was able to grow. The entire faculty members and department leaves no stone unturned to shape one's future. My four years at SKCET have been a wonderful experience of learning with prolific exposure. My Huge respect and love towards the entire faculty members and the department is always special. It was their efforts that made me to count myself into a better professional. SKCET contributed a lot to the development of my personality. Our placement team guided and encouraged us at each and every step thereby helping me secure my placement in a reputed company.

SREE KRISHNA SUDHAN G N -MECH(2021 Batch),

Federal

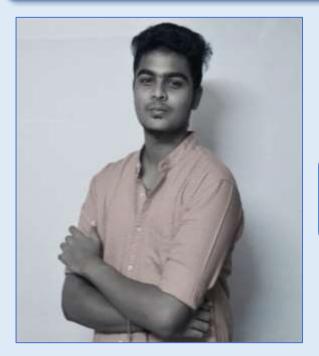
My journey with SKCET is definitely one I will cherish for life. In a very short span of time, I was able to learn a lot, which helped me excel academically as well as personally. SKCET aims at overall development of an individual and also provides multiple opportunities and exposure to develop new skills. Students are able to showcase their talent not just through technical but also through extracurricular activities. The competitive environment always pushed me to perform my best. The placement preparedness training was proved to us from the beginning of the 3rd Semester and it went on till the end of the 6th semester. The feeling of being employed upon graduating is immense and a morale boosting experience. I extend my gratitude to our Placement cell. I am very much grateful to my parents for choosing SKCET. Thanks to our Principal Madam and entire SKCET faculty team.

> VIVEK R, MCT(2021 BATCH), TURBO ENERGY





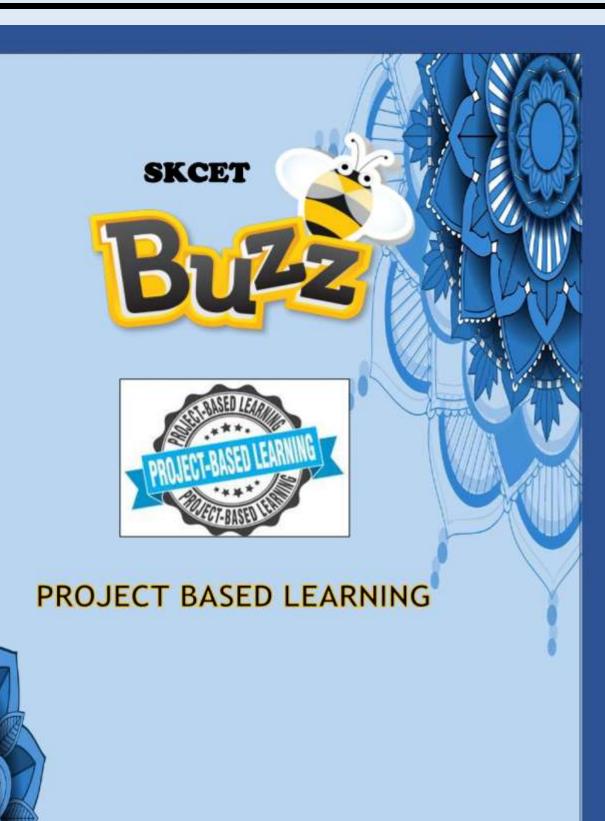
SKCET | TESTIMONIAL BY PLACED STUDENTS



GOKULARAJA.R-EEE [2022Batch] HCL TECH –5.5 LPA

I am a proud SKCETian. It is a great pleasure for me to be a part of SKCET family, to explore and enjoy its immense resources. The Placement Team of SKCET has brought plenty of companies to our campus even in this pandemic situation. I take this chance to show my sincere gratitude to all my department faculty members and placement trainers. The training provided by the placement team, boosted my cognitive skills and interpersonal skills and it's the key reason for me to clear my interviews. It's been a wonderful journey of four years and I would like to thank the management and all the faculty members for encouraging me to think globally and help my wings to take off!







CIVIL | PROJECT REVIEW



Project review – Phase 2 was conducted for the **Final** year **Civil Engineering** students on 7.04.2022. The students presented the objectives of their work. Faculty coordinator and guides of the respective batches provided their feedback and suggestions for further improvisation.

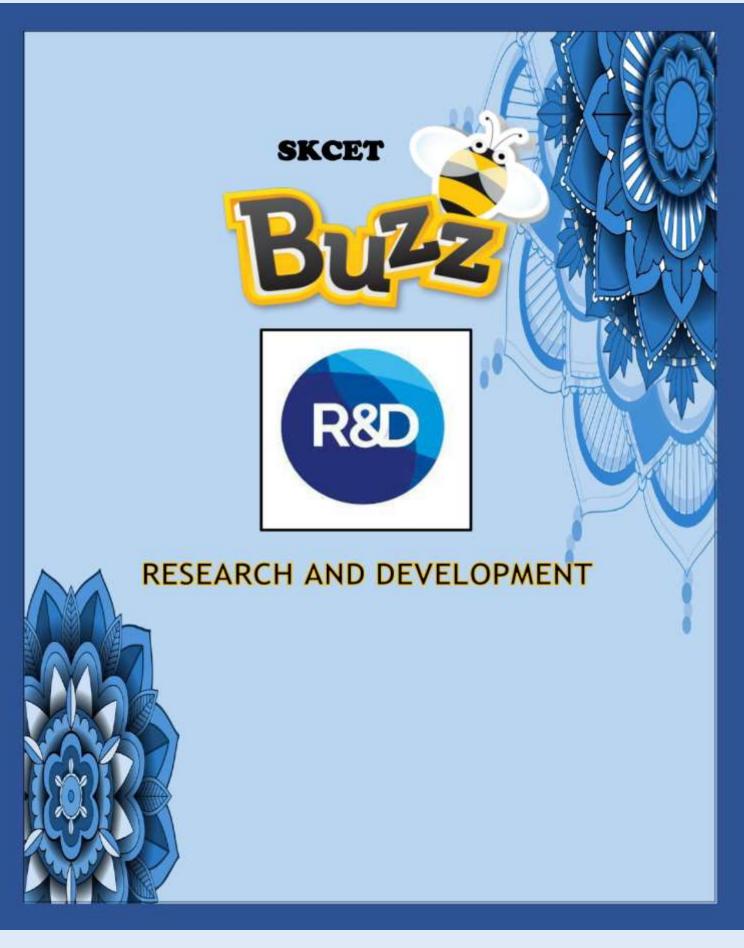


MECH | PROJECT REVIEW



Project Review was conducted for the **Final** year **Mechanical Engineering** students. The progress of the project work was reviewed and feedbacks for further improvisation of the projects were given by the faculty members of the Department.







R&D | BOOK CHAPTER PUBLICATION | EEE & ECE

Mr. V. V. Vineeth, Assistant Professor, EEE along with Dr. S. Sophia, HoD, ECE has published a book chapter entitled "Data Falsification Detection AMI: A Secure Perspective in Analysis" in Artificial Intelligence for Renewable Energy Systems, Book Volume with ISBN:978-1-119-76169-3 published by Scrivener Publishing.

Data Falsification Detection in AMI: A Secure Perspective Analysis

Vineeth V.V.14 and S. Sophia'

Department of Electrical and Electronics, Sri Krishna College of Engineering and Technology, Calmbarore, Judia unice and Cammanication, 3ri Krisima College of Engineering and Technology, Colmbatore, Judia Department of Electronics and Commu

Abstract

Abstract Advanced metering infrastructure (AMI) being a crucial component of aniart grid invitoinment has enurroom attractive characteristics and relatively low cost of installation. AMI makes communication in two-way possible betweens the innart metering infrastructure and utility crutients which facilitates functionalities like automated reading of mater data and power distribution monitor and control. Nevertheless, the implementation of AMBs poss several challenges and threats which can, its tirr, deteriorate its benefits. This paper gives an overview of various attack scenarios associated with AMI with major focus on data fabilitorion attacks. In data fabilitation or macks, attackers amis to inject maticitons codes or fabe data to temper legitimate data. A detailed analysis of the various detection schemes that are available to efficiently detect such attacks is also given on the paper.

Keywords: Advanced metering infrastructure, smart meter, false data injection,

9.1 Introduction

The numerous enhancements and improved innovative potential of amart grid environment create grid architecture complex and expose the grid to a variety of attacks. Advanced metering infrastructure (AMI) acts as a basic

*Grouponding author: stressborogislicat.ac.in

Apry Kannet Vytes, S. Balatmarugan, Karnal Fant Biran and Hamb S. Ditonare (eds.) Artificial Intelligence for Kenevashie Intergy Inviews, (201–210) © 2022 Scatowist Publishing LLC.

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R&D | PAPER PUBLICATION | ECE

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Modeling of Fuzzy Logic-Based Classification System Using the Gravitational Search Algorithm

Attendedition Louise Street, R. Louis Fathing, S. Diamandar, K. Hartin Tagapart

First Deliver 10 April 2021

Part of the <u>Dealine in His Data</u> book series (1980, volume 508)

Abstract

Data clustering with the idea obtained from the statistics is an intricate data mining crisis. In this article, a new optimization algorithm depending on the gravity law along with many connections is introduced called algorithm of gravitational search (GSA) and proposed for clustering law detection and syncing of membership process for fuzzy logic-induced clustering form. In the proposed gravitational search algorithm, the identifier parameters are a compilation of masses which relate with other parameters depending on the Newton's gravitational law and the laws of acceleration. The gravitational force is directly related to the multiplication of the masses and inversely related to the square of the detachment between the two particles. GSA states that a pile of parameters known as masses projected to get the optimal could using restruction of Newton's gravity law and law of motion. The working of the projected GSA is weifed using ten pohlidy available benchmark datasets

Ms. Anish Fathima B. Assistant Professor, ECE has published a Book Chapter in the Part of the Studies, Big Data book series. It is a Scopus Indexed book series.



R&D | PAPER PUBLICATION | MECH

Thermal Analysis of Counter Flow Concentric Tube Heat Exchanger Using Runge-Kutta Method

M. Karthick^{1,a}, S. Raujith Kumar², K. Athiappan³, S. Joe Patrick Guanaraj⁴

¹Department of Machanical Engineering, Vel Tack Rangarajan Dr Sagunhale AAD Incitate of Science and Technology, Cleman, Tamil Nadu, India. ¹Department of Machanical Engineering, In: Externa College of Engineering and Jacknology, Combatane, Tamil Nadu, India.

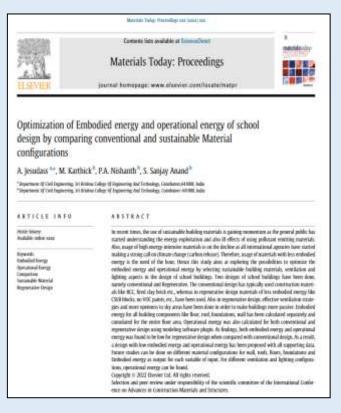
¹Department of Civil Engineering, Joshi Engineering College, Korala, Iodia ¹Department of Machanical Engineering, Francis Korar Engineering College, Transbulk, Tamil Yada, Iodia ¹Corresponding autor: karticick liveliseck edu in

Abstract Concentr: robe less exchanges un used for undritude of applications ranging from heat transfer in law end applications to contaits in space vehicles. Typical heat exchange equations are sufficient to solve problems refaced to finite semperature difference. However, scientific solutions require complex calculations that considers lowers and mannes heat disspections to give accurate result. Mothematical and analytical methods of counter flow heat exchanges is carried out in this study. Examention of heat exchange during counter flow is facilitated by incorporating Europe-Kanta Method. Comparison between the two analysis methods is carried on fir two conditions unking use of NTU approach. During one of the conditions the arguit values were maintained as stand, strate give accord conditions, the input values were varied. The Range-Kanta Method give accurate results for both the conditions.

Keywork: Concentric tube heat exchanger, Mathematical method, Analytical method, NTU approach, Range-Kata method Mr.S.Ranjith Kumar, Assistant Professor, Department of Mechanical Engineering has published a scientific research article titled 'Thermal Analysis of Counter Flow Concentric Tube Heat Exchanger Using Runge-Kutta Method' in AIP Conference Proceedings. It is a Scopus Indexed publication.

R&D | PAPER PUBLICATION | CIVIL

Mr. A. Jesudass, Assistant Professor, Department of Civil Engineering along with the Final year students M. Karthick, P. A. Nishanth and S. Sanjay Anand has published a research article titled "Optimization of Embodied Energy and operational energy of school design by comparing conventional and sustainable material configurations" in Materials Today: Proceedings.





R&D | **PAPER PUBLICATION** | **IT**

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Abstract

The human running has experienced the worst disaster during this pandemic spread of COVID-19. Getting essential services viz, nonlicid, fixed, water, and renges support have been challenging during the pandemic. Prople suffer inadequite essential services during these lockdowns and quarantians. This paper proposes a distributed mobile booker service using the MQTT protocol for managing and accessing essential services during a pandemic. The proposed nethod splits the city into area. The essential services provides register their services with the publishers and the essential service provides register their services with the publishers and the essential service provides register their services planning technique that causalers solite how rapidly during the proposed technique there used under two scenarios with the solite how first models bookers. The professed technique has been tested under two scenarios early in his were samilaring and before bookers, and mobile bookers, mobile noncochers. The periferenance analysis has been carried out in turns of delay and packet delivery ratia with fixed lowing.

Dr.S. Durga, Associate Professor, Department of Information Technology has published a research article titled "Preparedness for Managing Pandemic using Distributed Mobile Brokers-using Covid 19 use case" in the Materials Today Proceedings, vol:51, issue:8, pp:2384-2388.

R&D | PAPER PUBLICATION | IT

Dr. S Deepakanmani, Associate Professor, Department of Information Technology has published a research article titled "Effect of Image Transformation on Efficient Net Model for COVID-19 CT Image Classification" in the Materials Today Proceedings, vol:51, pp:2512-2519.





R&D | BOOK PUBLICATION | MECH



Dr. C. Samson Jerold Samuel, Associate Professor, Mechanical Engineering been the Editor and has published a book titled 'Functional Composite Materials: Manufacturing Technology and Experimental Application' (ISBN: 978-981-5039-90-0) published by Bentham Science. The book will be indexed in Web of Science and Scopus. The Link for the book is https://www.eurekaselect.com/ebook_volume/3345

GOOGLE DOODLE | EARTH DAY



Google Doodle, on the occasion of World Earth Day 2022, shared a time-lapse of the impacts of climate change on our planet - one of the most pressing topics of our time. Using real time-lapse imagery from Google Earth Timelapse and other sources, the Doodle shows the impact of climate change across four different locales around our planet. Each remaining on the homepage for several hours at a time.





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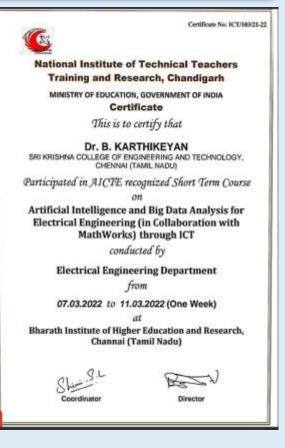
CIVIL | INDUCTION TRAINING ON NATIONAL CLEAN AIR PROGRAM



Mr.M.R.Ezhilkumar, Assistant Professor, Department of Civil Engineering has participated in NEERI sponsored Induction Training on "National Clean Air Program" from 21.03.22 to 23.03.22.

EEE | STC ON ARTIFICIAL INTELLIGENCE AND BIG DATA ANALYSIS FOR ELECTRICAL ENGINEERING

Dr. B. Karthikeyan, Associate Professor, EEE has participated in the AICTE sponsored one Week Short Term Course on "Artificial Intelligence and Big Data Analysis for Electrical Engineering" organized by the Department of Electrical and Electronics Engineering, Bharat Institute of Higher Education and Research, Chennai in association with National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh in collaboration with Math Work.





MECH | NPTEL CERTIFICATION

Dr.M.Vigneshkumar, Assistant Professor, **Mechanical Engineering** has successfully completed NPTEL course on **'Principle of Casting Technology'** and has obtained Elite + Silver Certification.



MCT | COURSERA CERTIFICATION



Mr. Pannerselvam S, Assistant Professor, MCT has successfully completed "Agile Project: Product prototype touch point Analysis in Miro", "CFD Simulation Centrifugal Pump"and through a "Finite Element Analysis Convergence Independence" online and Mesh offered noncredit courses through Coursera.

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MCT | COURSERA CERTIFICATION



Mr. Arunkumar P M, Assistant Professor, MCT has successfully completed "Computational Fluid Mechanics – Airflow around a spoiler" and "Finite Element Analysis Convergence and Mesh Independence" online noncredit courses offered through Coursera.

MCT | COURSERA CERTIFICATION

Mr.J.Dhiyaneshwaran, Assistant Professor, Mechanical Engineering has actively participated in a Faculty Development Program on 'Applications of Artificial Intelligence in Digital Manufacturing' sponsored by the Ministry of Electronics and Information Technology and ICT Academy, NIT Warangal at Sri Sai Ram Engineering College, Chennai from 21.02.2022 to 03.03.2022.



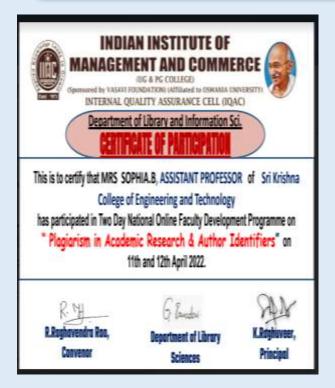


M.Tech CSE | IEEE PEER REVIEWER

Dr.P.KavithRani, Professor and Head, M.Tech CSE has reviewed the article "Dim and Small Target Detection based on Gaussian Markov Random Field Motion Direction Estimation" (December 2021) for publication in IEEE Access.



CSE | FDP ON PLAGIARISM IN ACADEMIC RESEARCH & AUTHOR IDENTIFIER



Ms.B.Sophia, Assistant Professor, CSE has participated in the two day National Online FDP on "Plagiarism in & Academic Research Author Identifiers" conducted by the Department of Library and Information Science, Indian Institute of Management and Commerce on 11.04.2022 and 12.04.2022.



MECH | FDP ON FINITE ELEMENT ANALYSIS

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Dr. V.P. Srinivasan, Mr.S.Balu Mahandiran and **Mr. J. Baskaran,** Assistant Professors, **Mechanical Engineering** have actively participated in the six days Faculty Development Program on **'Finite Element Analysis'** organized by Dr. NGP Institute of Technology sponsored by Centre for Faculty Development, Anna University, Chennai from 03.01.2022 to 08.01.2022.







MCT | CONFERENCE PRESENTATION



Dr.Feroz Ali, Associate Professor, MCT has presented two papers titled "Exploration on various forging route performance of cast A350 alloy reinforced with fly ash and MWCNT composites" and "Evaluation of the polyamides Mechanical Properties for varying Infill Percentage in FDM process" in ICAME 2022 – International Conference organized by SRM Institute of Science and Technology, Chennai.

MCT | CONFERENCE PRESENTATION



Mr.Arunkumar P M, Assistant Professor, MCT, has presented two papers entitled "Design and Fabrication of automatic hose machine" cutting and "Optimization of machining fixture layout by considering twoDimensional work piece fixture contact regions" in the International Conference on Advanced Computing & Communication Systems ICACCS 2022 organized by Sri Eshwar College of Engineering, Coimbatore on 25th and 26th March 2022.



MCT | CONFERENCE PRESENTATION



Raghul.R, Yogesh Muthuram, Harshavardhan Reddy, Shakil Khanna.N, students of MCT have presented a paper titled "Evaluation of the polyamides Mechanical Properties for varying Infill Percentage in FDM process" in ICAME 2022 –International Conference organized by SRM Institute of Science and Technology, Chennai.