

SKCET

Buzz



18th to 23rd December, 2021



e – Academia Special Issue: 93

Editor-in-Chief

**Dr.J.Janet
Principal**

Co-Editor

Dr.S.Venkata Lakshmi – AI & DS

Editorial Team

Mrs.K.Ananthi – MCT, Mr.S.Sureshkumar – CSE,

Mrs.S.Mary Fabiola - S&H



INSIDE THE ISSUE

- **INSTITUTIONAL EVENTS** PG 03 - 13
- **HACKATHON ACCOLADES** PG 14 - 15
- **STUDENTS PROGRESSION** PG 16 - 18
- **STUDENTS CERTIFICATIONS** PG 19 - 20
- **EVENTS** PG 21 - 25
- **INDUCTION/REFRESHER PROGRAMME** PG 26 - 32
- **RESEARCH AND DEVELOPMENT** PG 33 - 37
- **FACULTY CERTIFICATIONS** PG 38 - 49
- **FACULTY PROGRESSION** PG 50 - 54
- **CONFERENCE PRESENTATION** PG 55- 56





SKCET | CHRISTMAS CELEBRATION 2021



The poster features a festive design with green pine branches, red and gold ornaments, and strings of beads. In the center, the Sri Krishna logo is displayed above the text 'Sri Krishna College of Engineering and Technology'. Below this, a red cursive invitation reads 'We Cordially Invite You all for Celebration of'. The main title 'Christmas' is written in large, blue and gold cursive, with 'New Year 2022' below it in a similar style. Two Santa Claus figures are positioned on either side of the main title. At the bottom right, the event details are listed: 'on 23.12.2021 @ 12.00 PM' and 'Venue : MCA Block'. The bottom of the poster is decorated with a garland of greenery and red berries.

SRI KRISHNA
INSTITUTIONS
COIMBATORE

Sri Krishna
College of Engineering and Technology

We Cordially Invite You all for Celebration of

Christmas

New Year 2022

on 23.12.2021 @ 12.00 PM
Venue : MCA Block

SKCET | CHRISTMAS CELEBRATION 2021



Glad Tidings of Great Joy at SKCET

It's never too late to celebrate Christmas, the festival of joy, hope, peace and Love. On this note the festive celebrations was set in motion with an array of Colorful events.

Ho! Ho! Ho! It's Christmas Time!!!!

SKCET | CHRISTMAS CELEBRATION 2021



Presidential Address

The presence of Our **Respected Chairperson** Madam emblazed the entire event. Madam with great delight shared a Cheerful Christmas note and wished warmest greetings of this festive season and best wishes for happiness in the New Year.

SKCET family was overwhelmed with jubilation and Delight!!!

SKCET | CHRISTMAS CELEBRATION 2021



Christmas Message by Principal Madam

Without doubt, Christmas is a fantastic time! The promise of peace, good will and growing sense of excitement and expectation, makes this time of year very special.

Principal Madam shared the theme message of Christmas and conveyed her New Year greetings.

SKCET | CHRISTMAS CELEBRATION 2021



SKCET | CHRISTMAS CELEBRATION 2021



SKCET | CHRISTMAS CELEBRATION 2021



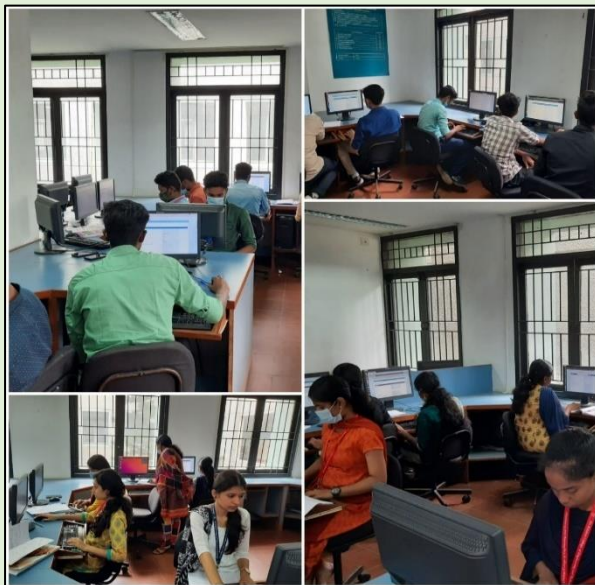
SKCET | CHRISTMAS CELEBRATION 2021



SKCET | CHRISTMAS CELEBRATION 2021



SKCET | ANTI-RAGGING UNDERTAKING



Second year students of **Sri Krishna College of Engineering and Technology** filled up the Anti- ragging form and pledged to make the college "Ragging free" and will not be involved in it, either in deed, action or thought in their personal life.



CSE | MANTHAN 2021



Team **Hackfrenzy** from **Second** year **CSE** has won first prize in "**Manthan 2021**" organized by the **Bureau of Police Research and Development (BPR&D)** in coordination with **AICTE**. The team was awarded with a cash prize of **Rs. 1,00,000/-**. Principal Madam **Dr.J.Janet**, appreciated the team for their stupendous effort.

Team members:

- Nivetha A-II CSE B
- Arthika G - II CSE A
- Arshath B - II CSE A
- Nandhini V - II CSE B
- Priyadarshini B - II CSE B

Team mentor:

Ms.Rohini M, AP/CSE





IT| ROTARY YOUTH LEADERSHIP AWARD



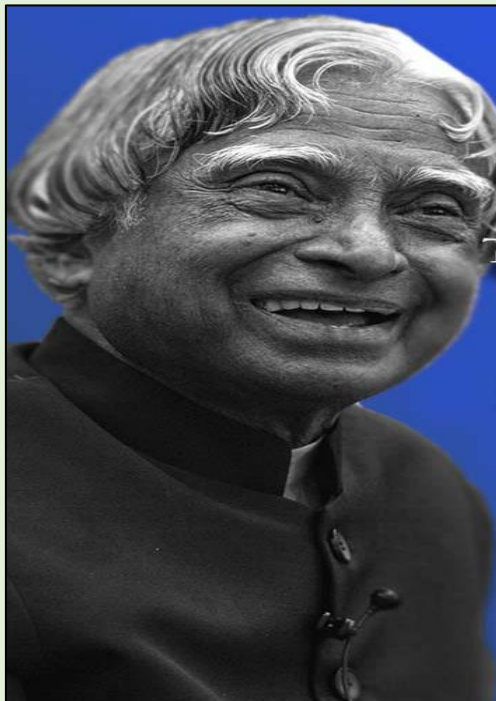
N.Shanthini Devi, student of **Final** year **IT B** has participated in RYLA (Rotary Youth Leadership Award) and has been awarded as the "**Best Emerging Entrepreneur**" for pitching her start up plan. The award was bestowed on her by **Mr.Muthu Annachi**, Ithayam Oil. The team was awarded runner up in overall participation and also got certificates for best business plan, business video creator, and chart work.

CIVIL| INTERNSHIP @ NEYVELI LIGNITE CORPORATION LIMITED

<p>एनएलसी इंडिया लिमिटेड (पूर्व में भारत) लिमिटेड (भारतीय) आयतन विकास केन्द्र (एनएलसी) अध्ययन एवं विकास केन्द्र (एनएलसी) 2011 (प्रमाणित संस्थान) ब्लॉक-20, नेयवेली - 607803</p>	<p>NLC India Limited (Formerly Neyveli Lignite Corporation Limited) ("Navarna" - Govt. of India Enterprise) LEARNING & DEVELOPMENT CENTRE (An ISO 9001:2015 Certified Institution) BLOCK-20, NEYVELI - 607803</p>	<p>150 YEARS OF EXISTENCE AND PROGRESS</p>
Tel/Fax: 0412-213664	E-mail: www.nlcindia.com	Website: www.nlcindia.com
L.C.No. G.M.L&D.U.G/IST/2712/299SKCE&T/1011-2021.		Dated: 13.12.2021
To THE GENERAL MANAGER, CORPORATE ENVIRONMENT CELL, NLC INDIA LIMITED, NEYVELI.		
Respected Sir, Sub: L&DC - Permission for doing Internship Training at NLCIL mode- Reg. Ref: College Ref No: SKCET/BON-103/2021-22		
The competent authority has approved vide note dated 22.01.2021 to provide internship training for 300 students for every year. The following student is permitted to do internship training, subject to the terms and conditions of NLCIL, Neyveli.		
NAME OF THE STUDENT	COURSE	COLLEGE / INSTITUTION
J. S. DHINAKARAN	BE-CIVIL	SRI KRISHNA COLLEGE OF ENGINEERING & TECHNOLOGY, COIMBATORE
TOPIC	ENVIRONMENTAL MANAGEMENT IN MINES & THERMAL POWER PLANTS	
PERIOD	13.12.2021 to 27.12.2021 02 weeks	
GUIDE	SRI M.SENTHIL KUMAR, GM/CIVIL, CENTRAL ESTABLISHMENT, CORP. ENVIR.CELL, CPF No:21730, MOBILE No: 98652 96652, NLCIL, NEYVELI	
<ul style="list-style-type: none"> The above student is directed to report to THE GENERAL MANAGER /CORPORATE ENVIRONMENT CELL, NLCIL. Three days before the completion of the Internship Training, the student is advised to report to the Learning & Development Centre with the DRAFT TRAINING REPORT for approval. After approval, the Internship Training report shall be presented in the final format along with attendance details. 		
<p>DEPUTY CHIEF MANAGER LEARNING & DEVELOPMENT CENTRE DR.N.GANESH Deputy Chief Manager Learning & Development Centre</p>		
To		
<ul style="list-style-type: none"> The student concerned The student is instructed to wear the safety appliances such as NLCIL provided. Must adhere to safety rules and Covid-19 protocol. Copy to the Asst. Commandant, (CSIF) of CORPORATE OFFICE. Copy to the Unit HOHR, CENTRAL ENVIRONMENT CELL, CORPORATE OFFICE. Copy to the Guide. Copy to the COLLEGE /UNIVERSITY. Copy Submitted to the General Manager/TA Copy to the In-charge of Executive Hostel/Block-20 - with a request to provide the accommodation facilities to the above student (s) for the above-mentioned period. Copy to the COLLEGE/UNIVERSITY with a request to evaluate the Internship Training only after the receipt of certificate from NLCIL Ltd. 		

S.Dhinakaran, student of **Third year Civil Engineering** Department has been selected for an internship at **Neyveli Lignite Corporation Limited** under the topic **"Environmental management in mines and thermal power plants"**. This exclusive offer is awarded only to 300 students every year under L&DC and he is one among them.

LEGENDARY INSIGHTS

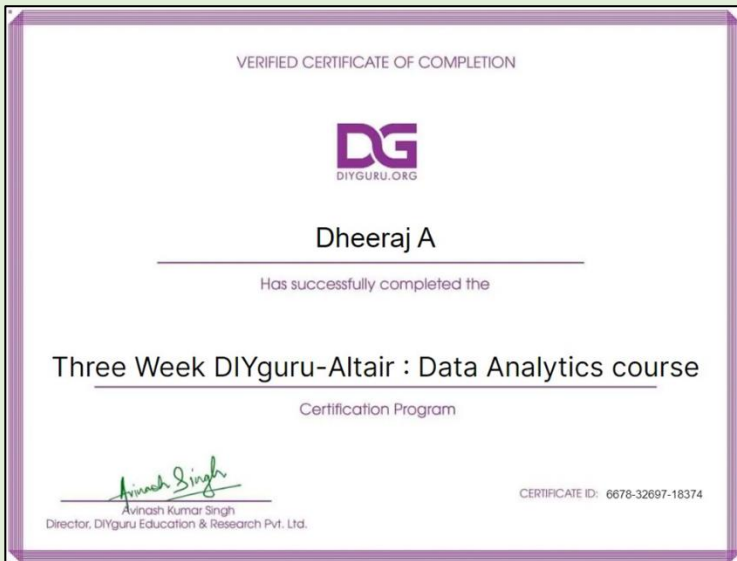


The Purpose of Education Is
To Make Good Human Beings
With Skill And Expertise.
Enlightened Human Beings
Can Be Created By
Teachers.

- APJ Abdul Kalam



MCT | DATA ANALYTICS



A.Dheeraj, student of **Second** year **MCT A** has successfully completed the Three weeks course on **Data Analytics**, Authorized by DIYguru-Altair upskilling programs in Design Engineering.

HEALTHOGRAPHICS | MORE REASONS TO EAT FRUIT





EEE | WEBINAR ON GREEN ENERGY - CLEAN ENERGY

Sri Krishna College of Engineering and Technology
(An Autonomous Institution, Affiliated to Anna University,
Accredited by NAAC with 'A' Grade, Accredited by NBA)
Coimbatore, Tamilnadu, India

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
&
Energy Audit Cell

Cordially invites you for the Webinar on
Green Energy-Clean Energy

Resource Person
Mr.P.Premkumar
Technical Training Lead
Petroleum Conservation & Research Association
Coimbatore

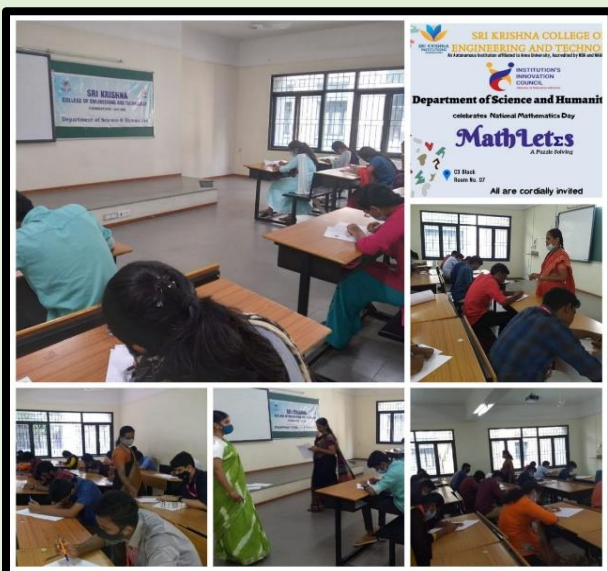
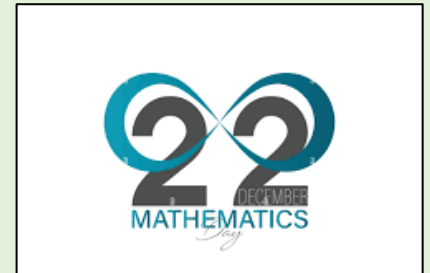
18.12.2021, 10:00 AM
Mode : Online
(Google Meet)

Department of **Electrical and Electronics Engineering** in association with **Energy Audit Cell** organized a webinar on “**Clean Energy – Green Energy**” for the **Third** year students on 18.12.2021 on account of Energy Conservation Week. **Mr.P.Premkumar**, Technical Training Lead, Petroleum Conservation Research Association (PCRA), Coimbatore was the resource person. The objective of this session was to make the students understand the innovative schemes available in Energy Conservation.

Session Highlights:

- Importance of Clean Energy
- Ideas to reduce the impact of Green House Gases.
- Students Project Ideas in Clean and Green energy.

S&H | NATIONAL MATHEMATICS DAY



Department of **Science and Humanities** organized an event **MathLetS – A Puzzle Solving** for the **First** year students in a view to celebrate **National Mathematics Day**. The event focused to motivate, enthuse and inculcate a positive attitude among the student community towards learning Mathematics.

S&H | WORKSHOP ON PROACTIVE MIND SKILLS



Department of Science and Humanities in association with **WE-SERVE Life Builders** organized a workshop titled **Proactive Mind Skills** for the **First year BE /B.Tech** students by to enhance their personality development. The session helped them to understand their own complex mind, leading them to manage their own emotions, build healthy relationships, develop a positive mindset and a resilient personality.

S&H | HoD INTERACTION WITH HoR MEN



Dr. Ragavi V, Head of the Department, **Science & Humanities** interacted with the **First** year hostel students (HoR Men) at the Seminar Hall explaining the rules and regulations of the hostel. The students were motivated and encouraged to utilize the available in-house sources to explore their academic interests and other activities. They were directed to open new horizons of life, leading to character building and maintenance of discipline inside the campus.



EEE| AICTE - ISTE SPONSORED INDUCTION/REFRESHER PROGRAMME- DAY 3

Session VIII

Topic: Advanced Machine Learning Algorithms for Data Analytics applied for Smart Grid.

Resource Person:

Dr. Prasanth A, Assistant Professor,
Dept. of Electronics and Communication Engineering,
Sri Venkateswara College of Engineering, Chennai.

Session Highlights:

- Roadmap, Architecture and challenges in IOT
- Wireless Sensor networks, sensor interface
- Revolution of Industry 4.0
- IOT in Industry Revolution
- Machine learning algorithms and it's classification.

Session IX

Topic: National Education Policy 2020

Resource Person:

Dr. Manpreet Singh Manna, Associate Professor,
Department of Electrical & Instrumentation Engg.,
Sant Longowal Institute of Engineering & Technology,
Longowal

Session Highlights:

- Multilingualism and Multidisciplinary Education.
- Integrating Vocational Education.
- Internationalization.
- Online and Digital Education.
- National Research Foundation.
- Setting up of PARAKH.

EEE| AICTE - ISTE SPONSORED INDUCTION/REFRESHER PROGRAMME- DAY 4

Session X

Topic: Dynamic Energy Management in Smart Grid

Resource Person:

Dr. K. Yasoda,

Dept of Electrical and Electronics Engineering, Government College of Technology, Coimbatore.

Session Highlights:

- Smart Grid- Introduction
- Building Blocks of Dynamic Energy Management
- Dynamic Energy Resources
- Energy Storage System in Smart Grid
- Electric Vehicle and its features
- Battery Charging Mechanism

Session XI

Topic: Stress Management

Resource Person:

Dr. Swarna Ganesan,
Medical officer,
Coimbatore Medical College and Hospital,
Coimbatore.

Session Highlights:

- Stress and its Causative Agents
- Effect of Stress on Cognitive Functions
- Types of Stress
- Body Physiology to Stress
- Stress - Disorders and Diseases
- Methods to De-Stress

EEE| AICTE - ISTE SPONSORED INDUCTION/REFRESHER PROGRAMME- DAY 4

Session XII

Topic: Introduction to Cyber Security and its need for Smart Grid.

Resource Person:
Dr. K. Baskaran, Professor,
Department of Electrical and
Electronics Engineering,
Alagappa Chettiyar Government
College of Engineering and
Technology, Karaikudi.

Session Highlights:

- Introduction to Cyberspace, Cyber Predators and Bullies.
- Identity Theft and Mobile Security.
- Malware and Ransomware.
- Smart Grid Network and Communication.
- Challenges and Solutions in Smart Grid Security.

Session XIII

Topic: Cyber Physical Security and Big Data Analytics of Advanced Metering Infrastructure.

Resource Person:
Dr. Sandeep Kumar Singh,
Department of Electronics and
Communication Engineering,
National Institute of Technology,
Hamirpur, Himachal Pradesh.

Session Highlights:

- IoT and its Challenging Issues.
- Security Architecture of IoT.
- Cyber Security Issues in AMI.
- Network Model and Security Mechanism.
- Energy Theft and Detection Scheme.

EEE| AICTE - ISTE SPONSORED INDUCTION/REFRESHER PROGRAMME- DAY 5

Session XIV

Topic: Future Research Directions in Smart Grid Technology

Resource Person:

Dr. R. Rajeswari, Professor, Department of Electrical and Electronics Engineering, Government College of Technology, Coimbatore.

Session Highlights:

- Smart Grid and its Evolution.
- Various Power System Challenges.
- Major Blackout in India and Reasons behind it.
- Smart Grid Key Technology Areas.
- Role of Advanced Components in the Transmission System.
- Supergrid - HVDC Transmission.

Session XV

Topic: 5G Networks in Smart Grid - Deployment and Maintenance Challenges

Resource Person:

Dr. T. Gunasekaran, Program Director/EET, University of Technology and Applied Sciences, Muscat, Sultanate of Oman.

Session Highlights:

- 5G - Technical Objectives and Applications.
- Multimeter Wave High Frequency Operation.
- Power Grid - Existing & Future requirements.
- Trends and Challenges of Smart Grid.

EEE| AICTE - ISTE SPONSORED INDUCTION/REFRESHER PROGRAMME- DAY 5

Session XVI

Topic: Data Analytics and Cyber Security in the context of Industry 4.0 with Real Time Smart Grid

Resource Person:
Dr.B.Somasundaram,
Group Leader, Siemens, India.

Session Highlights:

- Typical Smart Grid
- Smart Grid facilities at Glass manufacturing and Heavy Engineering Industry
- Objectives of AMI & HAN
- Energy Optimization System
- Typical Carburizing Process
- Cyber Security Overview

Session XVII

Topic: Virtual Hands on training session

Resource Person:
Dr. R.Maheswari,
Associate Professor,
SCOPE, VIT Chennai.

Session Highlights:

- Knime Analytics Platform - Installation, GUI and build workflow.
- Sample Flow: Sample Grid Data Analytics.
- Decision Tree - Supervised Learning Algorithm using Zero Coding.
- Clustering - Unsupervised Learning Algorithm using Zero Coding.
- Knime Analytics data set handling.

EEE| AICTE - ISTE SPONSORED INDUCTION/REFRESHER PROGRAMME- DAY 6

Session XVIII

Topic: Big Data Analytics for Smart Grid - Case Study

Resource Person:

Mr. A.Jeevanantham ,

Department of Information Technology,
Kongu Engineering College, Erode.

Session Highlights:

- Big Data Analytics - Overview and Visualization.
- Working on Things - board Platform.
- Applications of BD in Grid Networks - Methods
- Survey of BD role in Smart Grids - Challenges and Solutions.

EEE| AICTE - ISTE SPONSORED INDUCTION/REFRESHER PROGRAMME - VALEDICTORY FUNCTION

Valedictory Ceremony of the **AICTE - ISTE Sponsored Induction/ Refresher Programme** was held on 20.12.2021. The Chief Guest of the valedictory function was **Dr. P. Sakthivel**, ISTE Executive, Council Member & Professor, Department of ECE, College of Engineering, Guindy Campus, Anna University Chennai. Vote of thanks was delivered by **Dr. M. Senthilkumar**, Associate Professor, **EEE** Department.





R&D | PATENT PUBLICATION | EEE

Application Details	
APPLICATION NUMBER	202141054387
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	25/11/2021
APPLICANT NAME	1. Dr.S.Rajasekaran 2. Dr. G.Radhakrishnan 3. Vignesh 4. Dr.K.Rameshkumar 5. Mr.P.Kathirvel 6. Dr.S.Karthigai Lakshmi 7. Dr. C. Sujatha 8. Mrs. D. Monica
TITLE OF INVENTION	DEVELOPMENT OF ROBOTICS HAND FINGERS USING WARM AND WHEEL MECHANISM
FIELD OF INVENTION	PHYSICS
E-MAIL (As Per Record)	vignesh.tamilarasun@gmail.com
ADDITIONAL-EMAIL (As Per Record)	vignesh.tamilarasun@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	10/12/2021

Patent titled "**Development of Robotics Hand Fingers Using Warm and Wheel Mechanism**" has been published by **Dr.G.Radhakrishnan**, Assistant Professor, **EEE** Department in the IPR Journal identified with Application No.:202141054387 on 10.12.2021.

R&D | PATENT PUBLICATION | MCT

Dr.V.Narasimharaj, Associate Professor, **MCT** has published a patent titled "**Design system for driver risk assessment using machine learning and fuzzy logic**". The patent office Journal No. 202141054923A published on 10.12.2021.

(12) PATENT APPLICATION PUBLICATION	(21) Application No.202141054923 A
(19) INDIA	
(22) Date of filing of Application :27/11/2021	(43) Publication Date : 10/12/2021
(54) Title of the invention : Design system for driver risk assessment using machine learning and fuzzy logic	
(51) International classification	G06Q0040080000, G06K0009020000, B60W0040090000, G06Q0030020000, G06N0020000000
(86) International Application No	: NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	: NA
(62) Divisional to Application Number	: NA
(71) Name of Applicant :	1)Dr.Jebakumar Immanuel D, SNS College of Engineering Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, SNS College of Engineering, Coimbatore - 641107 -----
	2)Dr.S.Kanchana, PSG College of Arts & Science 3)Dr. I. DEVI, Muthayammal College of Arts and Science 4)Dr. D.Manohari, St.Joseph's Institute of Technology 5)Dr. Gunasekaran Thangavel, University of Technology and Applied Sciences 6)Mr. L.Ramesh, TIPS College of Arts and Science 7)Dr. Ahy K.Thomas, Alliance College of Engineering and Design 8)Dr.V.Narasimharaj, Sri Krishna College of Engineering and Technology
	Name of Applicant : NA Address of Applicant : NA
(72) Name of Inventor :	1)Dr.Jebakumar Immanuel D, SNS College of Engineering Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, SNS College of Engineering, Coimbatore - 641107 -----
	2)Dr.S.Kanchana, PSG College of Arts & Science Address of Applicant :Associate Professor, Department of Software Systems, PSG College of Arts & Science, Coimbatore-641014 -----
	3)Dr. I. DEVI, Muthayammal College of Arts and Science Address of Applicant :Assistant professor in Computer Application Muthayammal College of Arts and Science(Autonomous), Rasipuram, Namakkal (Dt)-637408 -----
	4)Dr. D.Manohari, St.Joseph's Institute of Technology Address of Applicant :Associate professor, Department of Computer Science and Engineering, St.Joseph's Institute of Technology, Chennai, Tamilnadu -----
	5)Dr. Gunasekaran Thangavel, University of Technology and Applied Sciences Address of Applicant :Program Director, Telecommunications Engineering, Electrical and Electronics Engineering Section, University of Technology and Applied Sciences, Muscat,Oman -----
	6)Mr. L.Ramesh, TIPS College of Arts and Science Address of Applicant :Assistant professor, Department of computer science, TIPS College of Arts and Science, Coimbatore-641 107, Tamilnadu -----
	7)Dr. Ahy K.Thomas, Alliance College of Engineering and Design Address of Applicant :Professor, Department of Electronics and Communication Engineering, Alliance College of Engineering and Design, Alliance University, Bangalore, -----
	8)Dr.V.Narasimharaj, Sri Krishna College of Engineering and Technology Address of Applicant :Associate professor, Department of Mechatronics Engineering, Sri Krishna College of Engineering and Technology, Coimbatore-641008, Tamilnadu -----

R&D | PATENT PUBLICATION | CIVIL

Dr.S.Ramakrishnan and **Dr.P.Saravanakumar**, Associate Professors, Department of **Civil Engineering** have published a patent titled "**Resistive imbibed mesh sensor based concrete structure strength monitoring system employing IOT**" on 10.12.2021.

(12) PATENT APPLICATION PUBLICATION	(21) Application No.202141052457 A
(19) INDIA	
(22) Date of filing of Application :16/11/2021	(43) Publication Date : 10/12/2021
(54) Title of the invention : RESISTIVE IMBIBED MESH SENSOR BASED CONCRETE STRUCTURE STRENGTH MONITORING SYSTEM EMPLOYING IOT	
(71)Name of Applicant : 1DR.S RAMAKRISHNAN Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF CIVIL ENGINEERING, SRI KRISHNA COLLEGE OF ENGINEERING & TECHNOLOGY, KUNNAMUTHUR, COIMBATORE-641008, TAMIL NADU	(72)Name of Inventor : 1DR.S RAMAKRISHNAN Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF CIVIL ENGINEERING, SRI KRISHNA COLLEGE OF ENGINEERING & TECHNOLOGY, KUNNAMUTHUR, COIMBATORE-641008, TAMIL NADU

R&D | PATENT PUBLICATION | MECH & MCT

Application Details	
APPLICATION NUMBER	202141057636
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	10/12/2021
APPLICANT NAME	1. Dr.K.P.Yuvaraj 2. S.Sowmya 3. R.Anandkumar 4. D. Mohankumar 5. Nitin Vyas R 6. Nandheesh D T 7. Nandha gopal B 8. Mohamed Mansoor S 9. Salahuddeen S 10. Manikandan D 11. Noah Muthu sebastian R 12. Vignesh.T
TITLE OF INVENTION	TOOL RETRIEVAL MECHANISM FOR THE BENEFIT OF SMALL SCALE INDUSTRIES
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	yuvarajkp@skcet.ac.in
ADDITIONAL-E-MAIL (As Per Record)	yuvarajkp@skcet.ac.in
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--

Dr.K.P.Yuvaraj, Assistant Professor, **Mechanical Engineering** along with **Nitin Vyas D, Nandheesh D T, Nandha Gopal B, Mohamed Mansoor S, Salahudeen S, Manikandan D, Noah Muthu Sebastian R**, students of **Final year Mechanical Engineering** student and **Mr. T Vignesh**, Assistant Professor, **Mechatronics Engineering** have published a patent entitled '**Tool retrieval mechanism for the benefit of small scale industries**' in the IPR India identified with application number: 202141057636 Dated 10.12.2021.

R&D | PAPER PUBLICATION | ECE

Conferences > 2021 Fifth International Conf.

Smart Lane for Cars using Piezoelectric Devices

Publisher: IEEE [Cite This](#) [PDF](#)

Balaji V R.; Dinesh Kumar J R.; Ram Prakash M.; Sriram S.; Vasim Hushain S.; Vijay Karthick R. All Authors

Abstract
As the evolution of modern cars has been increased day by day the cost of fuel consumption also increases manifold. Nowadays the usage of batteries has been utilized in electrical vehicles. The problem in using electrical vehicles is that the batteries have a limited power backup and hence cannot be used for longer trips. To fulfil these requirements and considering the vision of automation in the production of fuelless cars, the reliability of the cars can be increased with the help of piezoelectric devices. Piezoelectric effect or piezoelectricity is defined as, generating an AC voltage when a material is put into mechanical stress or when a material undergoes a vibration. In this research work, two system models are designed and compared. The models are multi-array piezo systems (MAHS) and the proposed hybrid piezo harvesting system (PHS). The maximum efficiency obtained in MAHS is 58.35% and the PHS maximum is 62.6% (approximately). The high-pressure voltage generation is improved by 24.34%. The lower efficiency is 17.65% and 12.43 % for PHS & MAHS respectively. This system provides better energy conversion efficiency for energy harvesting systems in real-time scenarios, especially generating power from the traffic lane.

Document Sections
I. INTRODUCTION
II. PROPOSED SYSTEM
III. RESULTS & DISCUSSIONS
IV. CONCLUSION AND FUTURE SCOPE

Authors
Published in: 2021 Fifth International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC)

Figures
Date of Conference: 11-13 Nov. 2021
DOI: 10.1109/I-SMAC52330.2021.9640671

References
Date Added to IEEE Xplore: 20 December 2021
Publisher: IEEE

Conferences > 2021 Fifth International Conf.

Performance Analysis in Cognitive Radio using Multirate Asynchronous Sub-Nyquist Sampling System

Publisher: IEEE [Cite This](#) [PDF](#)

H Muneera Begum; D Hepatba; L.D. Vijay Anand; D.A.Janeera; D Ruth Anita Shirley; M Benedict Tephila. All Authors

Abstract
Wideband spectrum sensing is performed by developing by employing multiple low-rate sampler in a Multirate asynchronous sub-Nyquist sampling (MASS) system. Due to the low sampling rate, this approach is best suited for cognitive radio networks. Robustness during time synchronization issues, energy efficient data sensing and low complexity implementation are the key advantages of MASS. In synchronous and asynchronous samplers, implementation of spectrum sensing can be performed with recovery performance for energy detection. The performance of spectrum sensing can be improved by increasing the sampling branches. MASS utilizes sub-Nyquist sampling. Disadvantages of Nyquist sampling are High sampling rate, High energy cost, high implementation complexity, so sub-Nyquist sampling will be considered. Advantages of sub Nyquist sampling are low sampling rate, probability of overlapping of signal is less, low signal acquisition cost. Parameters like log-normal fading channels, Rayleigh fading, fading conditions for additive white Gaussian noise (AWGN), SNR levels, at different levels of sparsity, the detection probability vs possibility of false alarm are used for measurement of performance. In future MASS is combined with OFDM, to be called as multi carrier MASS and performance measures are evaluated. The paper presents sufficient conditions to uniquely recover the full spectrum by using compressive sensing theory.

Document Sections
I. Introduction
II. Literature Review
III. Proposed Work
IV. Implementation And Simulation
V. Conclusion And Future Work

Authors
Published in: 2021 Fifth International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC)

Figures
Date of Conference: 11-13 Nov. 2021
DOI: 10.1109/I-SMAC52330.2021.9640734

References
Date Added to IEEE Xplore: 20 December 2021
Publisher: IEEE

Conferences > 2021 Fifth International Conf.

Design of IoT Network using Deep Learning-based Model for Anomaly Detection

Publisher: IEEE [Cite This](#) [PDF](#)

Sudha Varalakshmi; Premnath S P; Yogalakshmi V; Vijayalakshmi P; V. R. Kavitha; Vimalaram. G. All Authors

Abstract
Destructive cyber-attacks and cybercriminals are increasing with the increase in IoT (Internet of Things) devices globally. This has led to the need for increase in security in IoT systems. Innovative and novel techniques are used by the intruders to accomplish malicious goals effectively through cyber-attacks. An Intrusion Detection System (IDS) is used for classification of attacks in IoT networks based on anomaly detection and machine learning techniques. Inefficiency is observed in the conventional machine learning models and intrusion detection techniques as the network technologies are unpredictable. Accurate identification of various anomalies is possible with deep learning models in several research segments. The input data along with its prominent characteristics may be categorized automatically for classification and anomaly detection using convolutional neural networks (CNN). Faster computations are enabled due to the performance efficiency of CNN. For IoT networks, an intrusion detection model based on anomaly detection is designed and developed in this paper. A multiclass classification framework is created initially using a CNN model. Further, 3D CNN is used for implementation of the proposed model. Various intrusion detection datasets from IoT networks are used for validation of the proposed CNN model. Pre-trained multiclass CNN model is used for implementation of multiclass and binary classification based on transfer learning. When compared to the conventional deep learning models, the proposed multiclass and binary classification framework has attained improved F1 score, recall, precision and accuracy.

Document Sections
I. Introduction
II. Related Work
III. Proposed Methodology
IV. Results and Discussion
V. Conclusion

Authors
Published in: 2021 Fifth International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC)

Figures
Date of Conference: 11-13 Nov. 2021
DOI: 10.1109/I-SMAC52330.2021.9640700

References
Date Added to IEEE Xplore: 20 December 2021
Publisher: IEEE

Conferences > 2021 Fifth International Conf.

Automated Voice Controlled Car Using Arduino with Camera

Publisher: IEEE [Cite This](#) [PDF](#)

C.Thirumarai Selvi; N. Anishviswa; G. Ashok Karthi; K. Darshan; M. Gowtham Balaji. All Authors

Abstract
This paper focuses on voice controlled car with camera, which is constructed by using major components called Arduino Uno, bluetooth module, motor driver circuit, camera and microsd card module. This automation provides a convenient way to control voice-controlled robot. This automation can aid people, who cannot walk. Voice Controlled car is controlled by using specific commands, which are recognized by mike with the mobile application. The mobile application recognize six commands and they are LEFT, RIGHT, FORWARD, BACK, STOP, KEEP WATCH IN ALL DIRECTION. This mobile application can be used in android or IOS cellphones. Here, the Bluetooth module is used for controlling the voice-controlled car wirelessly and utilizes MicroSD card for storing the video from the camera.

Document Sections
I. Introduction
II. Literature Review
III. METHODOLOGY
IV. RESULTS AND DISCUSSION
V. CONCLUSION AND FUTUREWORK

Authors
Published in: 2021 Fifth International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC)

Figures
Date of Conference: 11-13 Nov. 2021
DOI: 10.1109/I-SMAC52330.2021.9640668

References
Date Added to IEEE Xplore: 20 December 2021
Publisher: IEEE

Following faculty members and students from the Department of **ECE** have published a paper in the 2021 Fifth International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC). It is a Scopus Indexed IEEE Conference.

Name of the Authors	Title of the Paper
Dr. Balaji V R; Mr Dinesh Kumar J R; Ram Prakash M; Sriram S; Vasim Hushain S; Vijay Karthick R	Smart Lane for Cars using Piezoelectric Devices
Ms H Muneera Begum; Ms D.A Janeera; Ms D Ruth Anita Shirley; Ms M Benedict Tephila	Performance Analysis in Cognitive Radio using Multirate Asynchronous Sub-Nyquist Sampling System
Mr Premnath S P	Design of IoT Network using Deep Learning-based Model for Anomaly Detection.
Dr.C.Thirumarai Selvi; N. Anishviswa; G. Ashok Karthi; K. Darshan; M. Gowtham Balaji	Automated Voice Controlled Car Using Arduino with Camera

R&D | JOURNAL PUBLICATION | EEE

Computers, Materials & Continua
DOI:10.32604/cmc.2022.020914
Article

Tech Science Press

An Automated Deep Learning Based Muscular Dystrophy Detection and Classification Model

T. Gopalakrishnan¹, Periakaruppan Sudhakaran², K. C. Ramya³, K. Sathesh Kumar⁴, Fahd N. Al-Wesabi^{5,6*}, Manaf Abdullah Aiohali⁷ and Anwer Mustafa Hilal⁸

¹School of Computer Science and Engineering, Vellore Institute of Technology, Vellore, 632014, India
²Department of Computer Science and Engineering, SRM TRP Engineering College, Tiruchirappalli, 621105, India
³Department of Electrical and Electronics Engineering, Sri Krishna College of Engineering and Technology, Coimbatore, 641008, India
⁴School of Computing, Kalasalingam Academy of Research and Education, Krishnankoil, 626128, India
⁵Department of Computer Science, King Khalid University, Muhajel Aseer, KSA
⁶Faculty of Computer and IT, Sana'a University, Yemen
⁷Department of Information Systems, College of Computer and Information Sciences, Princess Nourah Bint Abdulrahman University, Saudi Arabia
⁸Department of Computer and Self Development, Preparatory Year Deanship, Prince Sattam bin Abdulaziz University, Alkhajj, Saudi Arabia
*Corresponding Author: Fahd N. Al-Wesabi. Email: fawesabi@kku.edu.sa
Received: 14 June 2021; Accepted: 15 July 2021

Abstract: Muscular Dystrophy (MD) is a group of inherited muscular diseases that are commonly diagnosed with the help of techniques such as muscle biopsy, clinical presentation, and Muscle Magnetic Resonance Imaging (MRI). Among these techniques, Muscle MRI recommends the diagnosis of muscular dystrophy through identification of the patterns that exist in muscle fatty replacement. But the patterns overlap among various diseases whereas there is a lack of knowledge prevalent with regards to disease-specific patterns. Therefore, artificial intelligence techniques can be used in the diagnosis of muscular dystrophies, which enables us to analyze, learn, and predict for the future. In this scenario, the current research article presents an automated muscular dystrophy detection and classification model using Synergic Deep Learning (SDL) method with extreme Gradient Boosting (XGBoost), called SDL-XGBoost. SDL-XGBoost model has been proposed to act as an automated deep learning (DL) model that examines the muscle MRI data and diagnose muscular dystrophies. SDL-XGBoost model employs Kapur's entropy based Region of Interest (ROI) for detection purposes. Besides, SDL-based feature extraction process is applied to derive a useful set of feature vectors. Finally, XGBoost model is employed as a classification approach to determine proper class labels for muscle MRI data. The researcher conducted extensive set of simulations to showcase the superior performance of SDL-XGBoost model. The obtained experimental values highlighted the supremacy of SDL-XGBoost model over other methods in terms of high accuracy being 96.18% and 94.25% classification performance upon DMD and BMD respectively. Therefore, SDL-XGBoost model can help physicians in the diagnosis of



This work is licensed under a Creative Commons Attribution 4.0 International License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original work is properly cited.

Dr.K.C.Ramya, HoD, **EEE** has published a paper entitled **"An Automated Deep Learning Based Muscular Dystrophy Detection and Classification Model"** in CMC-Computers, Materials & Continua with Impact Factor: 3.772. It is indexed in SCI & Scopus journal.

DOI:10.32604/cmc.2022.020914.

DO YOU KNOW

Unique Knowledge

The **eye muscles** are the most **active muscle** in the **body**, moving over **100,000 times** a day.



FACULTY CERTIFICATION

EEE | FDTP ON POWER ELECTRONICS

CERTIFICATE


CENTRE FOR FACULTY DEVELOPMENT
ANNA UNIVERSITY :: CHENNAI - 600 025

..... Dr. P. Vinothkumar, Associate Professor.....
..... Sri Krishna College of Engineering & Technology, Coimbatore.....

took part in the six-day Faculty Development Training Programme on
..... EE 8552 - Power Electronics..... conducted in
ONLINE MODE by the Department of Electrical & Electronics Engineering.....
at Kumaraguru College of Technology, Coimbatore.....
from 21.06.2021..... to 26.06.2021.....

 COORDINATOR(S)
with Name
Dr. K. Premalatha

 DIRECTOR
CENTRE FOR FACULTY DEVELOPMENT

 REGISTRAR
ANNA UNIVERSITY

CERTIFICATE


CENTRE FOR FACULTY DEVELOPMENT
ANNA UNIVERSITY :: CHENNAI - 600 025

..... Dr. S. Sivaranjani, Assistant Professor.....
..... Sri Krishna College of Engineering & Technology, Coimbatore.....

took part in the six-day Faculty Development Training Programme on
..... EE 8552 - Power Electronics..... conducted in
ONLINE MODE by the Department of Electrical & Electronics Engineering.....
at Kumaraguru College of Technology, Coimbatore.....
from 21.06.2021..... to 26.06.2021.....

 COORDINATOR(S)
with Name
Dr. K. Premalatha

 DIRECTOR
CENTRE FOR FACULTY DEVELOPMENT

 REGISTRAR
ANNA UNIVERSITY


CERTIFICATE



CENTRE FOR FACULTY DEVELOPMENT
ANNA UNIVERSITY :: CHENNAI - 600 025

..... Mrs. R. Geethamani, Assistant Professor.....
..... Sri Krishna College of Engineering & Technology, Coimbatore.....

took part in the six-day Faculty Development Training Programme on
..... EE 8552 - Power Electronics..... conducted in
ONLINE MODE by the Department of Electrical & Electronics Engineering.....
at Kumaraguru College of Technology, Coimbatore.....
from 21.06.2021..... to 26.06.2021.....

 COORDINATOR(S)
with Name
Dr. K. Premalatha

 DIRECTOR
CENTRE FOR FACULTY DEVELOPMENT

 REGISTRAR
ANNA UNIVERSITY

CERTIFICATE


CENTRE FOR FACULTY DEVELOPMENT
ANNA UNIVERSITY :: CHENNAI - 600 025

..... Mrs. G. Mahalakshmi, Assistant Professor.....
..... Sri Krishna College of Engineering & Technology.....

took part in the six-day Faculty Development Training Programme on
..... EE 8552 - Power Electronics..... conducted in
ONLINE MODE by the Department of Electrical & Electronics Engineering.....
at Kumaraguru College of Technology, Coimbatore.....
from 21.06.2021..... to 26.06.2021.....

 COORDINATOR(S)
with Name
Dr. K. Premalatha

 DIRECTOR
CENTRE FOR FACULTY DEVELOPMENT

 REGISTRAR
ANNA UNIVERSITY

EEE | FDTP ON POWER ELECTRONICS



Dr.P.VinothKumar, Dr.S.Sivaranjani, Ms.R.Geethamani, Ms.G.Mahalakshmi, Ms.N.Subhalakshmi, Mr.S.Karthikeyan, Ms.C.Pavithra faculty members of **EEE** Department have participated in the six-day Faculty Development Training Program on **"Power Electronics"** organized by the Department of Electrical & Electronics Engineering, Kumaraguru College of Technology, Coimbatore.

IT| ELSEVIER EXPERT SERIES- RESEARCH AND SOCIETAL IMPACT: INNOVATION FOR THE FUTURE



Dr.Arunachalam M, Professor,
Department of **Information
Technology** has attended “**Elsevier
Expert Series-Research and
Societal Impact: Innovation for the
Future**” at Elsevier- World Bank,
presented by Ylann Schemm Director
Elsevier Foundation.

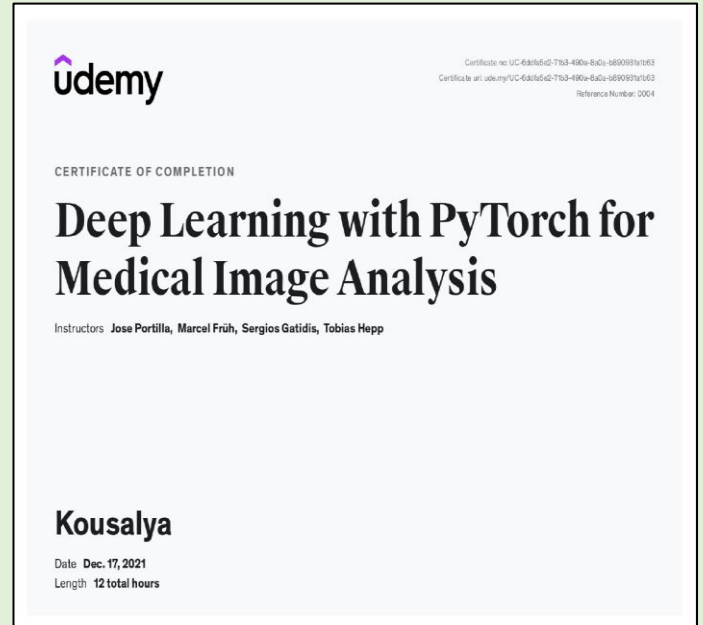
IT| ORACLE CERTIFIED ASSOCIATE

Ms.Dharunya Santhosh, Assistant
Professor, Department of
Information Technology has been
recognized as “**Oracle Cloud
Infrastructure 2021 Certified
Architect Associate**” by Oracle
Corporation.



IT | DEEP LEARNING WITH PYTORCH FOR MEDICAL IMAGE ANALYSIS

Dr.A.Kousalya, Associate Professor, Department of **Information Technology** has successfully completed the course "**Deep Learning with PyTorch for Medical Image Analysis**" offered through Udemy.



ECE | STTP ON ADVANCED ELECTROMAGNETICS AND MODERN ANTENNA DESIGN PRINCIPLES



Mr.J.R.Dinesh Kumar, Assistant Professor of **ECE** Department has participated in the 5 -day FDP on "**Advanced Electromagnetics and Modern Antenna Design Principles**", conducted by SSN College of Engineering, from 6.12.2021 to 10.12.2021.

MCT | NPTEL MENTOR CERTIFICATION



Mentor

Mr.S.MadhanKumar, Ms.S.Kannaki, Ms.K.Ananthi, Ms.J.IndiraPriyadharshini and Dr.N.A.Natraj, faculty members of **MCT** have been recognized for their role as **Mentors** for the NPTEL Online Certification course **“Entrepreneurship & IP Strategy”** from JUL-DEC 2021.

ECE | ATAL FDP ON APPLIED ARTIFICIAL INTELLIGENCE



Ms.R.Niranjana, Assistant Professor of **ECE** Department has participated in the Five day ATAL Online FDP on **"Applied Artificial Intelligence"** from 29.11.2021 to 03.12.2021 at Centre for Development of Advanced Computing.

EEE | ATAL FDP ON FUNDAMENTALS OF ELECTRIC VEHICLE TECHNOLOGY

Mrs.N.Subhalakshmi, Assistant Professor, **EEE** Department has participated in ATAL Faculty Development Program on **"Fundamentals of Electric Vehicle Technology"** organized by IIIT Bhagalpur.



MECH | NPTEL MENTOR RECOGNITION



Following faculty members from the Department of **Mechanical Engineering** have successfully mentored the students to complete online certification course from **NPTEL** and received certificate of appreciation for the same.

MECH | NPTEL MENTOR RECOGNITION

Name of the Faculty	Subject Mentored	Number of students mentored
Dr. R. Soundararajan	Fundamentals of Additive Manufacturing Technologies	6
Dr. N. Balaji	Introduction to Industry 4.0 and Industrial Internet of Things	25
Dr. R B Manoram	Introduction to Industry 4.0 and Industrial Internet of Things	28
Mr. S. Ranjith Kumar	Introduction to Industry 4.0 and Industrial Internet of Things	27
Mr. A. Sathish Kumar	Introduction to Industry 4.0 and Industrial Internet of Things	28
Dr. R. ArunBharathi	Introduction to Industry 4.0 and Industrial Internet of Things	20
Dr. N. Balaji	Developing Soft Skills and Personality	17
Mr. S. Balamurugan	Developing Soft Skills and Personality	16
Dr. Ben Ruban	Developing Soft Skills and Personality	11
Mr. K N Gunasekaran	Developing Soft Skills and Personality	13
Dr. S. Karthik	Developing Soft Skills and Personality	16
Mr. S. Krishnamoorthy	Developing Soft Skills and Personality	15
Mr. S. Ranjith Kumar	Developing Soft Skills and Personality	13
Dr. Samson Jerold Samuel	Developing Soft Skills and Personality	17

MCT | ONLINE FDP ON RECENT ADVANCEMENTS & RESEARCH OPPORTUNITIES IN ENERGY SECTOR



Mrs.S.Kannaki, Mrs.K.Ananthi and Mrs.M.Bhuvaneshwari, faculty members of **MCT** have attended Online FDP on "**Recent Advancements & Research opportunities in Energy sector**" from 29.11.2021 to 3.12.2021 organized by Aditya Engineering College.

CSE | FDP ON INTERNET OF THINGS AND HUMAN-COMPUTER INTERACTION



Ms.S.Nagajothi, Assistant Professor, **CSE** has participated in an online FDP on "**Internet of Things and Human-Computer Interaction**" from 25.10.2021 to 29.10.2021 organized by National Institute of Technology, Goa.

CSE | FDP ON APPLICATION OF ARTIFICIAL INTELLIGENCE IN RESEARCH AND DEVELOPMENT

Ms.S.Nagajothi, Assistant Professor, **CSE** has participated in an online FDP on "**Application of Artificial Intelligence in Research and development**" from 22.11.2021 to 26.11.2021 organized by CSIR - Advanced Materials and Processes Research Institute, Bhopal.

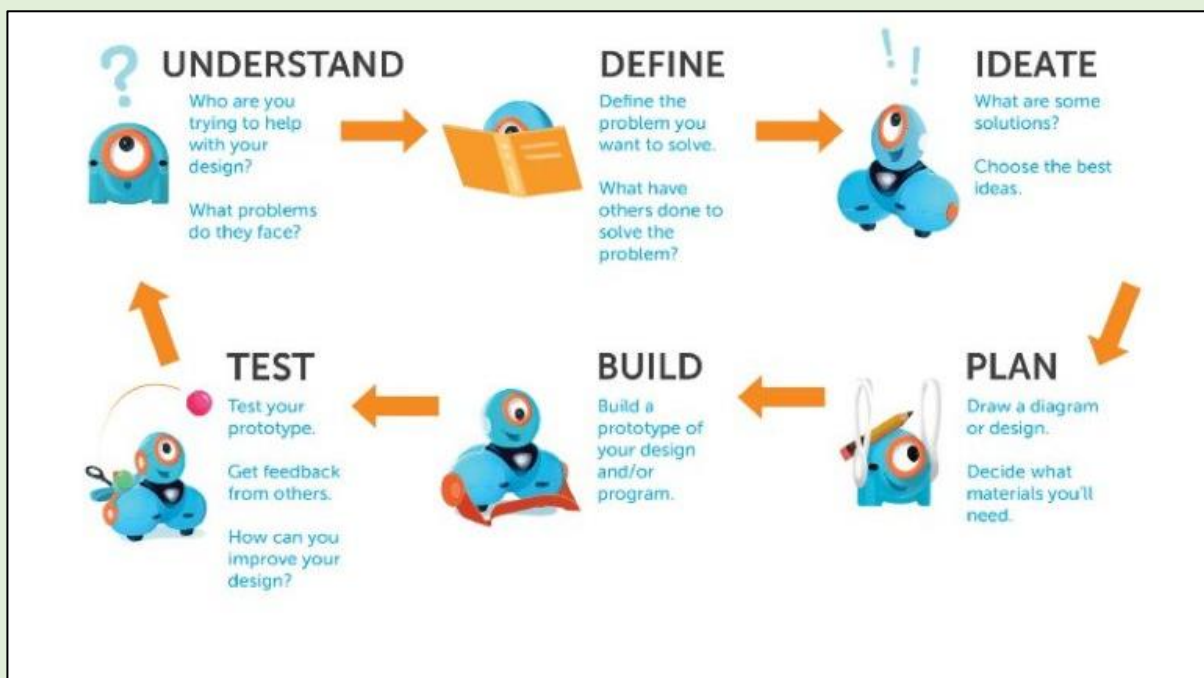


SOM | ATAL FDP ON DESIGN THINKING AND INNOVATIVE APPROACHES IN TEACHING FOR B SCHOOL TEACHERS



Dr.R.Suyam Praba, Associate Professor, **SOM** has actively participated and completed one week online Faculty Development Program on “**Design Thinking and Innovative Approaches in teaching for B schools Teachers**” organized by Prestige Institute of Management, Gwalior from 07.12.2021 to 11.12.2021.

INFOGRAPHICS | THE DESIGN THINKING PROCESS





IT | SYMPOSIUM EXTERNAL REVIEWER



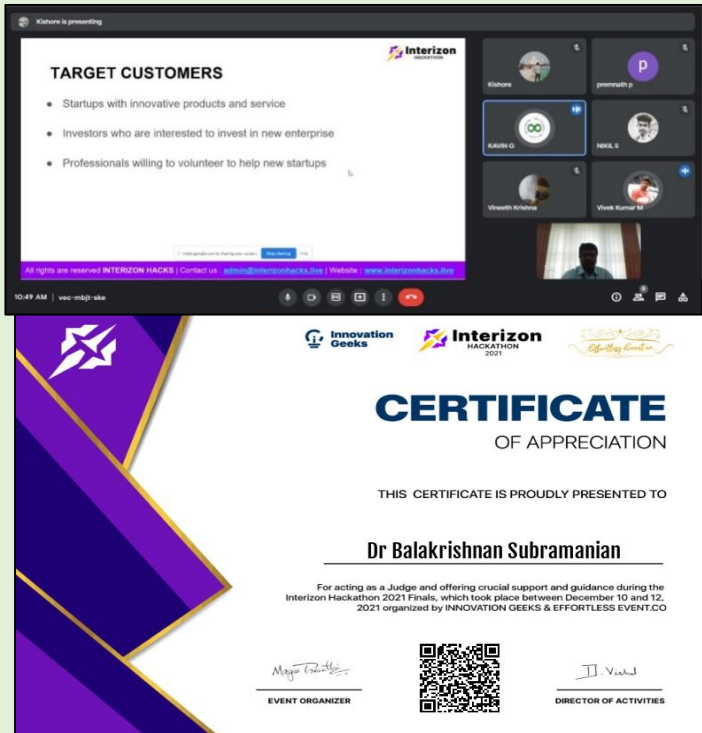
Dr.M.Arunachalam, Professor,
Department of **Information Technology,** has served as an External Reviewer for the papers submitted at the Online Symposium on **“Advances in Computational Intelligence and Heuristic Applications (ACIHA 2021)”** on 10th & 11th November 2021.

IT|HACKATHON MENTOR

Ms.V.Sindhu, Assistant Professor,
Department of **Information Technology,** has mentored a student team in the **Smart City Hackathon 2021** held from 18th October 2021 to 31st October 2021.



CSBS | HACKATHON JURY



Dr.S.Balakrishnan, Professor and Head, Department of **Computer Science and Business Systems** has been the **Jury** in the **Interizon Hackathon 2021** (36 hours) organized by **Innovation Geeks and Effortless Event Co** held from 10th Dec – 12th Dec 2021.

CSBS | GUEST SPEAKER

Dr.S.Balakrishnan, Professor and Head, Department of **Computer Science and Business Systems** was invited as the **Guest Speaker** for Gujcost sponsored Six days **Faculty Development Program** on **Machine Learning to Deep Learning: Trends and Challenges**. He delivered a lecture on the topic **"Generative Adversarial Network"** on 16.12.2021.



CSBS | INTERNATIONAL ADVISORY MEMBER



Dr.S.Balakrishnan, Professor and Head, Department of **Computer Science and Business Systems** is an active **Member** in **International Advisory Committee**, International Conference on Multidisciplinary Approaches in Technology and Social Development (ICMATSD) organized by Carlos Hilado Memorial State College, Philippines on 16th & 17th December 2021.

CIVIL | GUEST SPEAKER

Mr.M.R.Ezhil Kumar, Assistant Professor, Civil has been invited as a guest speaker in Achariya College of Engineering Technology on the topic **"Metro Rail Systems"**.

Session Highlights:

1. Overview of Metro Rail Systems
2. Metro networks in India
3. Financing for Metro Rail Projects
4. Rolling Stock
5. Ventilation and Air Conditioning Systems
6. Underground Tunnels

ACET
ACHARIYA COLLEGE OF ENGINEERING TECHNOLOGY

DEPARTMENT OF CIVIL ENGINEERING

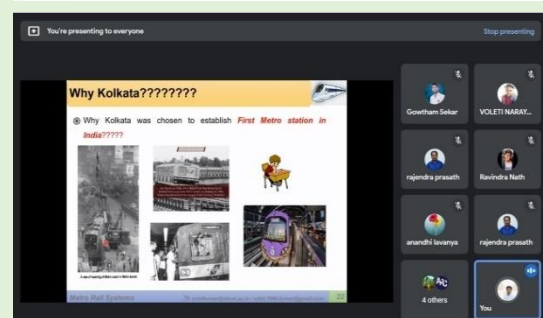
Welcome you all to participate National Level Webinar on **"METRO RAIL SYSTEM"**

M.R.EZHILKUMAR
Assistant Professor,
Department of Civil Engineering,
Sri Krishna College of Engineering and Technology, Coimbatore.

Saturday
11th DEC 2021.
10.00am.

For Details & Admissions Contact:
+917867924859, +917708121849.
www.acet.edu.in
<https://meet.google.com/dis-mneq-yfc>

E-Certificate will be issued to all the participants

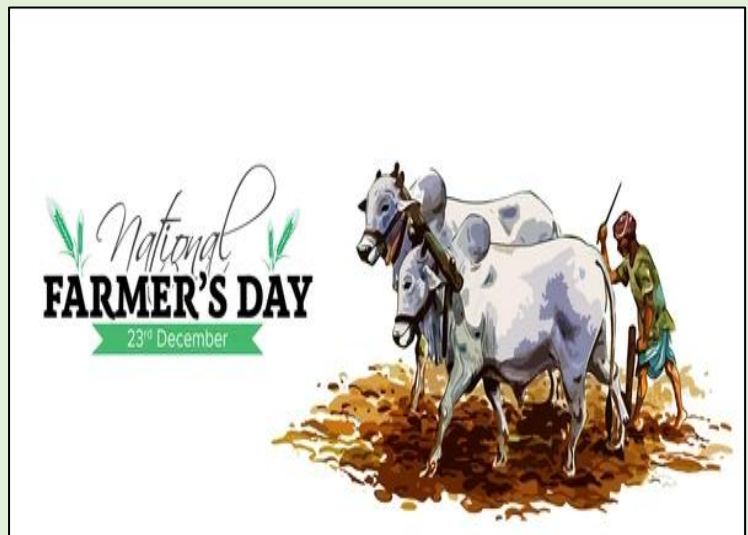
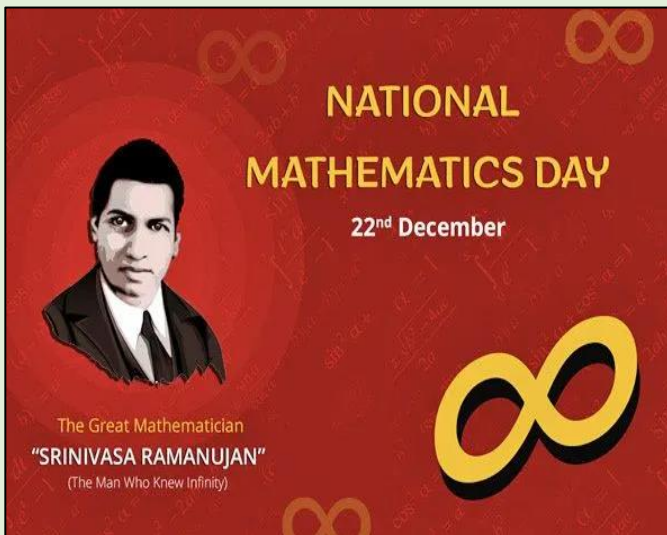


ECE| PRIMARY EVALUATOR- TOYCATHON 2021



Dr.A.Albert Raj, Professor, Department of **Electronics and Communication Engineering** has been appreciated for his exceptional contribution as a **Primary Evaluator** in Toycathon 2021.

NATIONAL DAYS OF THE WEEK



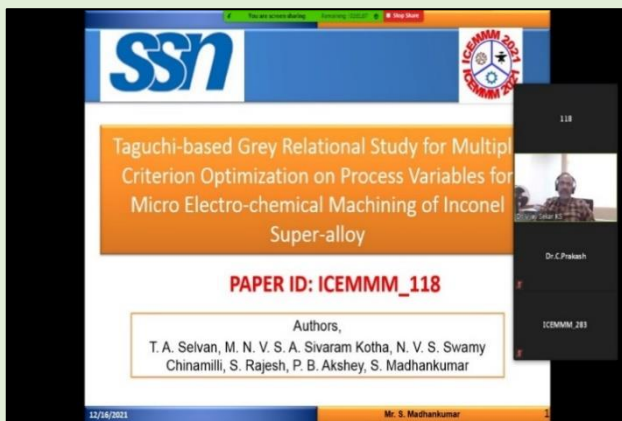


SOM| CONFERENCE PRESENTATION

Dr.P.Thamaraiselvi, HoD, **School of Management** has participated in One day multidisciplinary **International Conference conducted by University of Kelaniya, Sri Lanka** on 7th December 2021 and has presented a paper titled **“Exploring the role of financial literacy in stimulating sustainable development”**.



MCT| CONFERENCE PRESENTATION



Dr.T.A.Selvan, and **S.Madhankumar**, faculty members of **MCT** have presented a paper entitled **“Taguchi-based Grey Relational Study for Multiple Criterion Optimization on Process Variables for Micro Electro-chemical Machining of Inconel Super-alloy”** and **“Electrochemical Machining of Aluminium 7075 alloy, Silicon Carbide, and Fly Ash Composites: An Experimental Investigation of the Effects of Variables on Material Removal Rate”** in the Second International Conference on Engineering Materials, Metallurgy and Manufacturing (ICEMMM 2021), conducted by SSN College of Engineering, Chennai on 16.12.2021.

