

**SKCET**

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**09<sup>th</sup> – 13<sup>th</sup> April 2022**



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## HACKATHON ACCOLADES

## CSE|YHACK 2022

### SUBMITTED TO



YHack 2022

WINNER

2nd Place Prize - Travel  
Track

### Meet The Team !

Insomniacs



**Aswathy H**

Project Manager  
Idea Generator



**Aswin B**

UI/UX Designer  
Creative Head



**Ashwin K Biju**

UI/UX Designer  
Database Manager



**XPLORE**  
Silenzio Bruno

### Travel 2nd Place - Xplore



- Team Name: Insomniacs
- Team Members: Ashwin Biju, Aswathy Harikumaran, Aswin
- Team Description:

Xplore  
Silenzio Bruno I

Student team from **Second** year CSE has won “**Best Travel Hack**” category with a cash prize of 500USD in the **YHack 2022** organized by **Yale School of Engineering & Applied Science University, USA** and hosted by **Major League Hacking**.

**Project Title:** Xplore

**Team members:**

- ❖ Aswathy H
- ❖ Aswin B
- ❖ Ashwin K. Biju

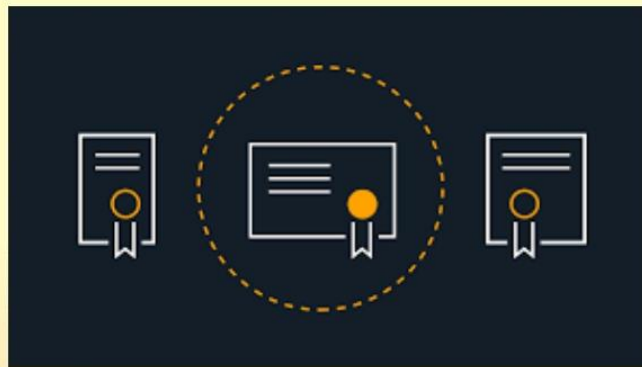
**Team mentor:**

Ms.Priya A, AP/CSE

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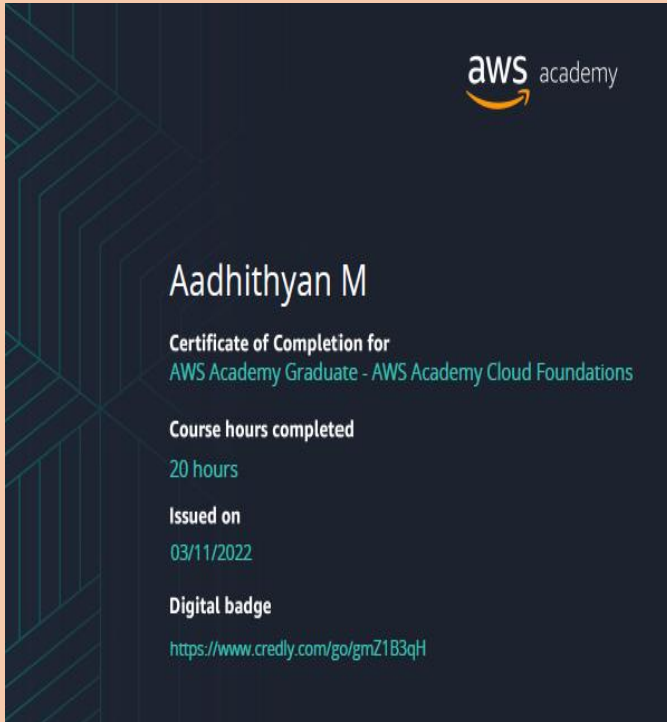
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## STUDENT CERTIFICATIONS



# M.Tech CSE|AWS ACADEMY CLOUD FOUNDATIONS

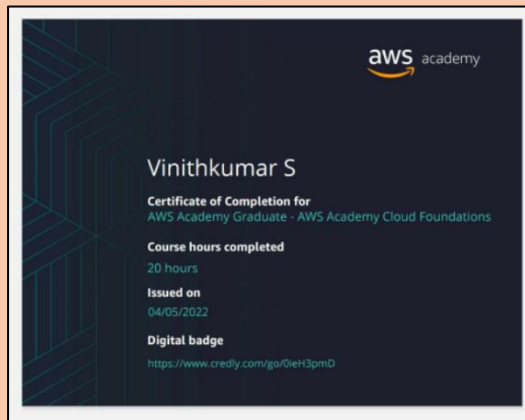


## M.Tech CSE|AWS ACADEMY CLOUD FOUNDATIONS

Following students from **Third year M.Tech CSE** have successfully completed **“AWS Academy Graduate-AWS Academy Cloud Foundations”** on 03.11.2022.

S.No.	Register Number	Name of the student
1.	19EPCI001	AADHITHYAN M
2.	19EPCI003	AKILESWARAN B
3.	19EPCI004	ALEN MORRES
4.	19EPCI006	ANAND PRABHU R
5.	19EPCI007	ATHESH A
6.	19EPCI008	FAIZA I
7.	19EPCI009	GOKUL KRISHNAN A
8.	19EPCI010	INBAMANI M
9.	19EPCI011	INDHU BHASHINI V
10.	19EPCI012	JIHIN JINO S
11.	19EPCI013	KARTHICKEYEN M
12.	19EPCI014	KARTHIKEYAN M
13.	19EPCI015	KARTHIKEYAN R
14.	19EPCI016	KAVIRAM SUDHARAJA NAINAR P
15.	19EPCI017	KEERTHI T M
16.	19EPCI018	MOHAMED ASHARAF M
17.	19EPCI020	NITHIN R
18.	19EPCI021	NITTIN G
19.	19EPCI022	PREM KUMAAR R
20.	19EPCI023	RAHUL RAM V
21.	19EPCI024	REHAN KRISHNAN S
22.	19EPCI025	SARAN V
23.	19EPCI026	SATHYA PRIYAA A S
24.	19EPCI029	SRI SUDHARSAN S
25.	19EPCI030	SRI VIKASHINI B
26.	19EPCI032	VIVEKBALAJI M

# IT | AWS ACADEMY CLOUD FOUNDATIONS



Following students from **Third year IT C** have successfully completed “**AWS Academy Graduate-AWS Academy Cloud Foundations**” course.

Vinith Kumar S	SreyaSivaas
Sukitha S B	Vasanth S
Priyadharshini S	Vinisha
Swathi S	



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**EVENTS**


## EEE | INDUSTRIAL AUTOMATION TOOL AUTOCAD ELECTRICAL & PLC/SCADA

**SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY  
COIMBATORE**  
(An Autonomous Institution)  
(Accredited by NAAC with 'A' Grade, Accredited by NBA,  
Affiliated to Anna University, Chennai)



**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
cordially invites you for the seminar on

**INDUSTRIAL AUTOMATION TOOLS  
AUTOCAD ELECTRICAL & PLC/SCADA**

**RESOURCE PERSON**



**Er. K. KALIRAJ**  
Senior CADD Engineer  
Livewire Software Training Institute  
Coimbatore

08.04.2022  BS 03  11.00am - 12.30 pm



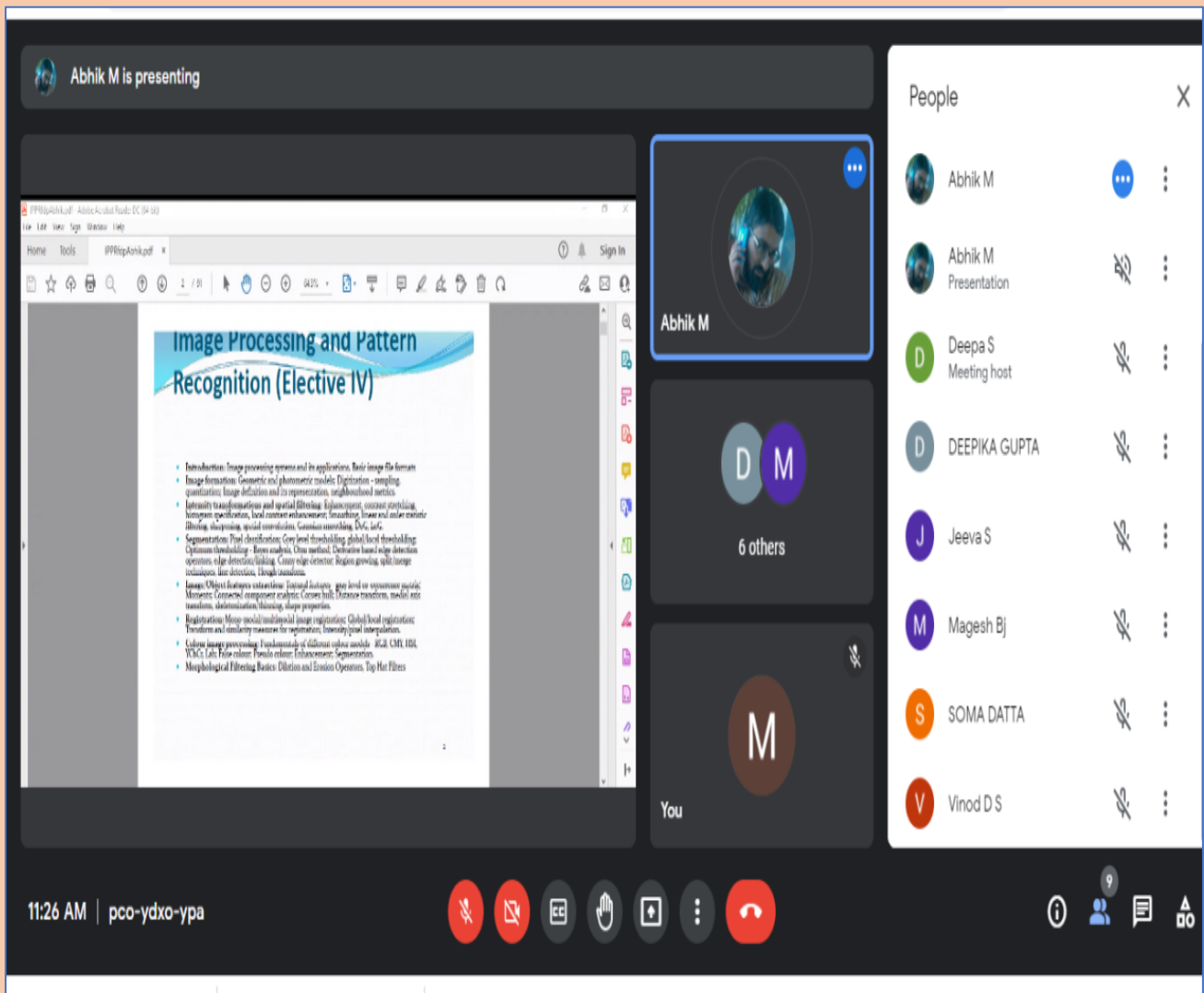
Department of Electrical and Electronics Engineering organized a webinar on “Industrial Automation tool AUTOCAD Electrical & PLC/SCADA” for Third year students.

**Resource Person:** Dr. K. Kaliraj, Senior CADD Engineer, Livewire Software Training Institute, Coimbatore. He introduced the Industrial automation concepts for the students and its importance. He also explained the tools required for Industrial automation application. He gave a demo in PLC/ SCADA software.

### Session Highlights:

- Recent Advancements in Process Automation
- Modular Instruments
- Variable frequency drives and operator interface.
- Industrial application of PLC/SCADA

## CSBS|FDP ON IMAGE PROCESSING AND PATTERN RECOGNITION



Tata Consultancy Services conducted a Faculty Development Program on “Image Processing and Pattern Recognition” on 01.04.2022 for the faculty members handling the course all over India. The event was facilitated by **Mr. Mageshwaran B.J**, TCS. **Dr. Abhik Mukherjee**, Associate Professor, Department of Computer Science and Technology, Indian Institute of Engineering Science and Technology, Shibpur was the Resource Person for the event. **Mr. M.Manicka Raja**, Assistant Professor, **CSBS** attended the event representing our Institution.



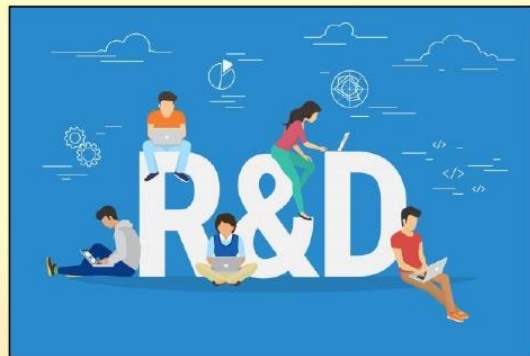
## MCT| IEEE- ROBOTICS AND AUTOMATION SOCIETY- STUDENTS CHAPTER - INAUGURATION



The inauguration ceremony of **IEEE - Robotics and Automation Society, Students Chapter** was organized by the Department of MCT on 9.04.2022. **Dr. M. Lydia**, HoD, MCT delivered the welcome Address. **Dr. SanthaKumar Mohan**, Associate Professor, IIT Palakad was the Chief Guest who inaugurated the Students Chapter. In his inaugural address he shared his insights on the Application of service robots, Mechanics Activations, Sensing, Perception and Navigation, Motion control and execution, Collaborative Robots and Field Service Robots. Prizes for the **Idea Presentation Contest** held on National Science Day and **Photography and Drawing Contest** held on World Sparrow Day were also distributed.

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**RESEARCH AND DEVELOPMENT**

# R&D | PAPER PUBLICATIONS | ECE

ieeexplore.ieee.org/document/9742723

Conferences > 2022 Second International Con...

## An Experimental Approach in Colour Correction and Contrast Improvement for Underwater Images

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

M. Benedict Tephila; B. Maruthi Shankar; S. Abhinandan; K.K. Arjun; P.M. Aswini; C. Divya Priya **All Authors**

2 Full Text Views

**Abstract**  
Underwater captured images often face low visibility and low colour cast because of the light absorbed and scattered when traveling in water. In the marine environment, it is difficult to view an image clearly and with proper details as compared to other environments. This is primarily due to the factors such as pollution, light, depth etc. It becomes an arduous task to produce a clear image in such situations. However, with the help of advanced technology, it has become easier to solve such issues using the appropriate algorithm or methodology. In this paper, a Bi-interval contrast enhancement and color correction is recommended to improve the image quality underwater. The technology or the process adopted here is such that it makes sure that the quality of the image is being restored and an enhanced image is produced as a result. Here the first step involves subinterval linear transformation with effective and simple color correction methodology to address color distortion. Color correcting strategy ensures the quality of the image restoration and hence a single image is produced by information from multiple images. This process is followed by the application of a Gaussian low-pass filter in the L-Channel in order to segregate the high and low frequency components. The last step of the process involves use of Bi-interval histogram using S-shaped function and optimal equalization threshold strategy for high and low frequency components. A comparison of the proposed work with other traditional methodologies indicates that this work shows high-quality underwater images with quantitative and qualitative evaluation.

**Published in:** 2022 Second International Conference on Artificial Intelligence and Smart Energy (ICAIS)

ieeexplore.ieee.org/document/9743005

Conferences > 2022 Second International Con...

## Design of IoT Enabled Cloud Assisted Health Monitoring System for Covid-19 Patients

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

G. Saranya; N. Dineshkumar; A. S. Hariprasath; G. Jeevanantham **All Authors**

**Abstract**  
Covid-19 is one of the life-threatening diseases which requires intensifying attention to combat disease by designing a smart and effective healthcare system for patients towards diagnosing and managing the Covid-19 disease. Various systems have been developed for diagnosing patient with diseases, but intelligent and feasible solution to explore and monitor the accurate predictive health conditions of affected patients has not been provided yet. In this paper, a new Contactless IoT-enabled cloud-assisted health monitoring system has been designed and developed. The system is made up of unobtrusive sensors, a data acquisition unit, a microcontroller, wi-fi module, Web server, and Web application or mobile application. It illustrates the design of the system to monitor and detect the severity of the coronavirus in the patients using various unobtrusive sensors to measure disease-specific vital parameters such as heart rate, temperature, oxygen level and pulse rate as main symptoms of the coronavirus are high fever, fatigue, and difficult breathing. Sensor acquired patient data is transformed using the HTTP protocol to cloud server using microcontroller and wi-fi module in real-time. Transformed data of patient condition is processed in the cloud server using data predictive algorithms such as Severity Defined Convolution Neural Network with respect to data collected and severity specific data thresholds and severity class predicted patient information will alarm the healthcare provider on the abnormalities detected in the patient health. A particular model is capable of forecasting the health status of the patients. Experimental analysis of the proposed architectures finds it effective in monitoring the status of the severity of breathing on the patients. Finally, the performance of the architecture is validated over accuracy and scalability measures.

**Published in:** 2022 Second International Conference on Artificial Intelligence and Smart Energy (ICAIS)

ieeexplore.ieee.org/document/9743009

Conferences > 2022 Second International Con...

## The Impact of Mental Health due to Covid 19 – A Mental Health Detector Using Machine Learning

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

B. Anishfathima; B. Sreenithi; S. Trisha; J. Swathi; M. Sindhu Priya **All Authors**

**Abstract**  
Stress has become a major part of human life during this Covid-19 pandemic due to the various internal and external expectations placed upon their shoulders. In this situation, Covid-19 is a very common and dangerous issue in the entire world, but as a result, people are going to notice the changes in their mental state such as depression, stress, and mood swings due to home quarantine. Thus, our paper will predict the stress levels using several algorithms of Machine Learning like K-Nearest Neighbour, Support Vector Machine, Naive Bayes and Artificial Neural Networks.

**Published in:** 2022 Second International Conference on Artificial Intelligence and Smart Energy (ICAIS)

Date of Conference: 23-25 Feb. 2022  
DOI: 10.1109/ICAIS53314.2022.9743009

Date Added to IEEE Xplore: 30 March 2022  
Publisher: IEEE

ISBN Information: [View Information](#)  
Conference Location: Coimbatore, India

ieeexplore.ieee.org/document/9741831

Conferences > 2022 Second International Con...

## A Comparative Analysis on Classification Models to predict Cardio-vascular disease using Machine Learning Algorithms

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

B. Anishfathima; R. Vikram; Sushaanthan R. T.; M. Sri Vishnu; C. Venumadhav **All Authors**

**Abstract**  
Recently, predictions of cardiovascular disease are one of the most difficult medical undertakings. Around one person dies each minute because of a cardiac condition in the recent day. In the analysis of a vast quantity of data in health care, machine learning plays a critical role. Since forecasting cardiac disease is a complicated undertaking, the prediction process must be automated so that dangers related to it are avoided and patients are warned. The suggested study forecasts possibilities of heart disease by using several machine learning methods such as Random Forest, SVM, decision tree, logistic regression and classified patient threat. In this work, a comparative analysis is presented that compares the capability of different machine learning methods. The findings show the greatest efficiency of the SVM algorithm is 94% compared with other applied ML methods.

**Published in:** 2022 Second International Conference on Artificial Intelligence and Smart Energy (ICAIS)

Date of Conference: 23-25 Feb. 2022  
DOI: 10.1109/ICAIS53314.2022.9741831

Date Added to IEEE Xplore: 30 March 2022  
Publisher: IEEE

ISBN Information: [View Information](#)  
Conference Location: Coimbatore, India

ieeexplore.ieee.org/document/9742895/authors#authors

Conferences > 2022 Second International Con...

## Intelligent Itinerant Robot [IIR] for Agricultural Farm Monitoring using IoT

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

R. Niranjana; R. Santhana Krishnan; K. Lakshmi Narayanan; X. Arogya Presskila; E. Golden Julie; S. Sundararajan **All Authors**

**Abstract**  
Agriculture plays a vital role in India's economy. Nearly 60% of our country's population hinge on agriculture and its by-products for its source of revenue. Hence proper maintenance of agricultural farm plays a pivotal role. Many on field sensor monitorization techniques has been implemented previously and it has produced incredible results in crop cultivation and farm maintenance. The performance or lifetime of the on-field sensors may get abridged due to various environmental factors and human intervention. Hence, we propose an Intelligent Itinerant robot is introduced here to monitor the various agricultural field parameters remotely on demand basis which completely removes the concept of on-field sensor fixation strategy. Moreover, the farmers can water the agricultural field remotely using a mobile application after the monitoring the humidity, temperature, soil moisture and soil pH values. This reduces the human workload to a huge extent and it also helps in improving the lifetime and performance of the sensors.

**Published in:** 2022 Second International Conference on Artificial Intelligence and Smart Energy (ICAIS)



## R&D | PAPER PUBLICATIONS| ECE

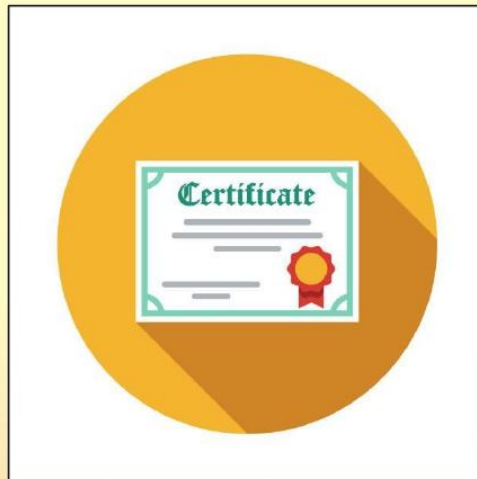
Following faculty members and students from the Department of ECE have published papers in the 2022 Second International Conference on Artificial Intelligence and Smart Energy (ICAIS). It is a Scopus Indexed IEEE Conference.

Name of the Authors	Title of the Paper
Ms.M.BenedictTephila; Dr.B.Maruthi Shankar; S.Abhinandhan; K.K. Arjun; P.M. Aswini; C.Divya Priya	An Experimental Approach in Colour Correction and Contrast Improvement for Underwater Images
Ms.G.Saranya;Dineshkumar;A.S. Hariprasath;G. Jeevanantham	Design of IoT Enabled Cloud Assisted Health Monitoring System for Covid-19 Patients
Ms B Anishfathima; B Sreenithi; S Trisha; J Swathi; M Sindhu Priya	The Impact of Mental Health due to Covid 19 - A Mental Health Detector Using Machine Learning
Ms B Anishfathima R.Vikram; Sushaanthan R T; M.SriVishnu; C Venumadhav	A Comparative Analysis on Classification Models to predict Cardio-vascular disease using Machine Learning Algorithms
MsR.Niranjana; R. SanthanaKrishnan; K. LakshmiNarayanan; X. ArogyaPresskila; E. GoldenJulie; S. Sundararajan	Intelligent Itinerant Robot [IIR] for Agricultural Farm Monitoring using IoT

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## FACULTY CERTIFICATIONS

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



Mrs.G.Mahalakshmi, Assistant 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, Dr. NGP Institute of Technology, Coimbatore in association with National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh and in collaboration with Math Work.

## EEE | COURSERA CERTIFICATION

Dr. Ramji Tiwari, Assistant Professor, EEE has completed a course on “**Protecting Business Innovations via Copyright**” offered by Hong Kong University of Science and Technology through Coursera.





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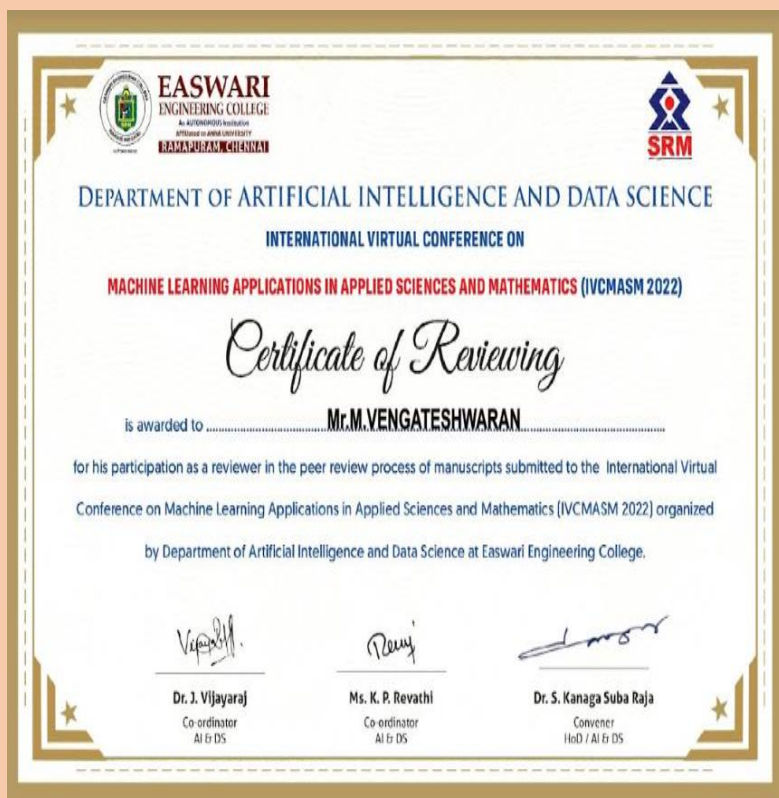
**FACULTY PROGRESSION**

## CSBS | JOURNAL REVIEWER

**Dr. S. Balakrishnan**, Professor and Head, Department of **Computer Science and Business Systems** has been appreciated for his outstanding contribution as a reviewer of the “**Asian Journal of Fisheries and Aquatic Research**” on 08.04.2022.



## CSE|CONFERENCE REVIEWER



**Mr.M.Vengateshwaran**, Assistant Professor, CSE, has been the conference reviewer in the International Conference on “**Machine Learning Applications in Applied Sciences and Mathematics (IVCMASM 2022)**” organized by Artificial Intelligence and Data Science Department, Eswari Engineering College.

## CSBS | CONFERENCE REVIEWER



**Dr. S. Balakrishnan**, Professor and Head, Department of **Computer Science and Business Systems** has served as a Reviewer for “**The International Conference on Decision Aid Sciences and Applications**” organised from 23<sup>rd</sup> to 25<sup>th</sup> March 2022 at Mae Fah Luang University, Thailand.

## EEE | REVIEWER RECOGNITION



**Dr. Ramji Tiwari**, Assistant Professor, EEE has received a certificate of reviewer for providing reviews for the International Transactions on Electrical Energy Systems Journal.



## EEE | WORKSHOP RESOURCE PERSON

**KARPAGAM**  
INSTITUTE OF TECHNOLOGY  
Inspiring Innovation  
Approved by AICTE and Affiliated to Anna University

**INSTITUTION'S INNOVATION COUNCIL**  
Member of Institute of Engineers

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING  
*Organizes*

Workshop on  
**Process Design & Development using MATLAB Simulink**

Resource person  
**Mr.S.Boobalan**  
Assistant Professor,  
Department of Electrical & Electronics Engineering,  
Sri Krishna College of Engineering & Technology,  
Coimbatore

09<sup>th</sup> April  
**2022**  
09:30 - 12:30  
Venue : Seminar Hall

Convenors  
Dr.P.Manimaran Principal    Dr.D.Bhanu Vice Principal

Coordinators  
Dr.K.Muthukumar, HoD/EEE    Ms.R.Preetha, AP/EEE

**Mr.S.Boobalan**, Assistant Professor, Department of EEE has handled a workshop on “**Process Design and Development using MATLAB Simulink**” organized by KIT-Institution’s Innovation Council, Department of Electrical and Electronics Engineering on 09-04-2022.

## WORD OF THE WEEK | CONSTRUE



**Meaning:** to understand the meaning of something in a particular way.

**Construe in a sentence:**

- If the dog is allowed to play with certain stuffed toys, it may construe that to mean that any play thing is an acceptable target.
- We were all amazed by the detective's ability to construe logic out of the killer's strange riddle.
- Although I tried to pay you a compliment, you have decided to construe my words as an insult.

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## CONFERENCE PRESENTATION

## CSE|CONFERENCE PRESENTATION

**Dr.P.Mohan Kumar**, Assistant Professor, CSE, has presented a paper entitled **“Price Prediction of House using KNN based Lasso and Ridge Model”** in the International Conference on Sustainable Computing and Data Communication System (ICSCDS 2022) organized by Shree Venkateshwara Hi-Tech Engineering College, Erode held during 07.04.2022 and 09.04.2022.



## CSE|CONFERENCE PRESENTATION



**Mr.M.Vengateshwaran**, Assistant Professor, CSE, has presented a paper entitled **“A Machine Learning based Energy Efficient Trajectory Planning Approach for Industrial Robots using RBF Neural Network”** in the National Conference on Emerging trends in Mechanical Engineering organized by the Department of Mechanical Engineering, Sri Sai Ram Institute of Technology, Chennai on 22.03.2022.



## EEE | CONFERENCE PRESENTATION



**Mrs.G.Mahalakshmi,** Assistant Professor, EEE has presented a research paper entitled **“Performance analysis of DC-DC converters for Solar PV fed Switched Reluctance motor for EV Applications”** in the First International Conference on Environmental Science and Engineering for a Sustainable Development-ESESD 2022 organized by University of Technology and Applied Sciences, Sohar.

## EEE | CONFERENCE PRESENTATION

**Mrs.G.Mahalakshmi,** Assistant Professor, EEE has presented a research paper entitled **“Design of Iterative Learning Controller for Switched Reluctance Motor with Least Torque Ripple”** in the International Conference on Advanced Computing & Communication Systems-ICACCS 2022 organized by Sri Eshwar College of Engineering, Coimbatore.



## IT | CONFERENCE PRESENTATION

Dr. G. Edwin Prem Kumar, Professor, Department of Information Technology has presented a research article “**Design and Fabrication of Automatic Hose Cutting Machine**” in the International Conference on Advanced Computing and Communication Systems conducted by Sri Eshwar College of Engineering and Technology, Coimbatore during March 25<sup>th</sup> and 26<sup>th</sup> 2022.



## EEE | CONFERENCE PRESENTATION



Mr. S. Elam Cheren, Assistant Professor, EEE has presented research paper entitled “**A Room Disinfection Automated Device, Massacre Technique using Ultraviolet-C radiation**” in the International Conference on Advanced Computing & Communication Systems- ICACCS 2022 organized by Sri Eshwar College of Engineering, Coimbatore.



## CSE | CONFERENCE PRESENTATION



**Mr.M.Vengateshwaran,** Assistant Professor, CSE, has presented a paper entitled “Efficient Survey of Low Power Wide Area Networks Combined with Internet of Things” in the National Conference on Computational Intelligence and Communication Networks (NCCICN 2022), Sathyabama Institute of Science and Technology ,Chennai.

## CSE | CONFERENCE PRESENTATION

**Mr.M.Vengateshwaran,** Assistant Professor, CSE, has presented a paper entitled “Deep Learner based Smart Attendance Preservation System Using Computer Vision Techniques” in the International Conference on Role of Artificial Intelligence and Sustainable Engineering in Driving Smart Cities Organized by the Department of CSE, Sri Vishnu Engineering College for Women during 29.03.2022 and 31.03.2022.





