



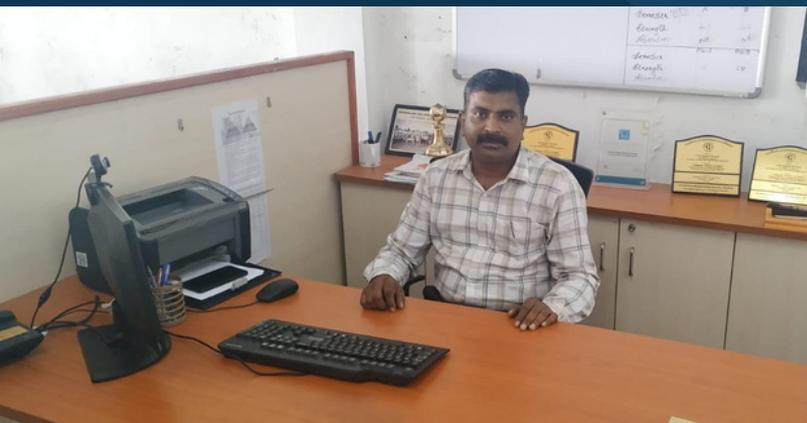
# INBOX



## MESSAGE FROM HOD

The CSE department has well maintained and well-equipped laboratories to carry out research projects. Being the HOD of the CSE department, it gives me great pleasure to see the development of the department since the past few years. Our Mentoring and Training department nurtures and guides the talent pool and organizes many programs to make them industry fit and right choice for the companies.

The undergraduate (B.Tech.(CSE)) curriculum has equal emphasize on the theoretical and practical aspects of Computer Programming, Software Engineering, Microprocessor, Computer Hardware Apart from class room teaching, there are frequent lectures delivered by renowned speakers drawn from Industry and R&D establishments. The journals and transactions from societies like IEE and IEEE are subscribed. A Competitive environment is fostered and development of leadership skills and team skills are also encouraged by means of the departmental society which holds various quizzes and contests from time to time to bring out hidden talents. As HOD, I wish to take this opportunity to assure you that I will try my best to maximize student participation in the department and will keep the administration transparent.



## DEPARTMENTAL ACTIVITIES AND EVENTS

As always, this semester also we had lot of events as part of our department. Most of the events were conducted as part of the academical activities.

### 1. International Conference on Computational Intelligence and Digital Technologies 2022 (ICCIDT 2K22) in collaboration with IJERT and IJCNC



An international Conference on Computational Intelligence and Digital Technologies 2022 (ICCIDT 2K22) in collaboration with IJERT and IJCNC was conducted on 3rd & 4th June 2022. In the event the keynote address was given by Dr.Ebin Deni Raj (Head of Computer Science and Engineering Department ACM, Distinguished Speaker in Data Science Indian Institute of Information Technology Kottayam) and the second keynote address was delivered by Jeba Shiney O, (Professor,ECE,Chandigarh University).

2. A webinar on cyber security was conducted on 25/06/22 and was lead by G.Hariharan, Professor PSN Institute of Technology, Thirunelveli.

3.Online Workshop for Witing,Presenting and Submitting Research Paper lead by Dr. Nithin George.

4.Expert talk on Data Analytics conducted by Ms Neema George and was lead by Mr. Ronnie Mathew

5.Expert talk on Motion Graphics lead by Mr Gaius B Samuel, SLO developer Hazaq Infotech on 16/07/2022

6.Expert talk on Database Connectivity in PHP leads by Mrs Sandiys C P, Assistant Professor IT department TOCH Institute of Sceince and Technology on 30/07/2022

7.Expert talk on Compiler Bootstrapping lead by Mr. Mahalingam P R, which was on 01/08/2022.

8.Workshop on Introduction to Android Programming was conducted on 21/05/2022., lead by Muhammed Iqbal P A.

9.Workshop on Introduction to Raspberry was conducted on 25/06/2022 lead by Ravishankar S.

# PATENTS



The eminent faculty community of the Dept. of Computer Science & Engineering proudly instigates a concept of : **MAINTENANCE OF DATA INTEGRITY AND SECURITY IN CLOUD USING IOT BASED AUDIO WATERMARKING APPROACH** and was published later on 17/06/2022,  
**INVENTORS**

- Dr.K.John Peter
- Dr. C.Sahaya Kingsly

With the rapid progress of multimedia and Internet technologies, the integration of multimedia devices and services becomes a central task in the IOT (Internet of Things), especially designing new IOT multimedia protocols and copyright protection and certification of digital media content, ensure. Digital watermarking has been suggested to address many multimedia security difficulties. This technique, which represents an important research branch of multimedia data hiding, embeds additional information in the form of watermarks in host files and then extracts it when needed. It can meet the requirements of some applications such as watermark data authentication, copyright protection, indexing, and watermark tracing. Through this technology, security can be provided to all types of digital documents. This technique can also be used in the industrial sector.



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Our respected faculty Dr. Vinodh P Vijayan had got a patent on **A VIRTUALIZATION SYSTEM FOR INTERNET OF THINGS (IOT) DEVICES AND THEIR CONNECTED STORAGE MEDIUM AND METHOD THEREOF** and it was published on 22/10/2021



The present invention discloses a virtualization system for Internet of Things (IoT) devices and their connected storage medium and method thereof. The system includes, but not limited to, a processing unit is configured to have an IoT device resource group information obtaining unit to analyze a received cloud system binding request from another IoT device to obtain a virtual resource group information to be allocated for the IoT device; a virtual machine is provided to search for a target virtual resource group for the IoT device corresponding to the virtual resource group information to be allocated in the connected storage medium from a virtual resource set, and create a target virtual machine from the target virtual resource group. Further, the virtual resource set is provided through the virtualization of physical resources of the connected storage medium.

## BOOK PUBLICATIONS

Enterprise IoT” First Edition: January 2022, NOTION PRESS, India. Singapore. Malaysia. Author: Dr. Vinodh P Vijayan .TEL: +91 481-2533711, 2533722, 2537053

WEBSITE: [www.mangalam.edu.in/Engineering/principal](http://www.mangalam.edu.in/Engineering/principal).

"Data communication and Computer communication", Author: Dr. Ravi Kumar. Phone No: 9965522010

## FACULTY ACHIEVEMENT

1.A review on weed identification using image processing techniques, Dashboards, International Journal of Engineering Research &Technology (IJERT)– Author :Dr. Ravi Kumar

2.A Review of Various Deep Learning Models and Datasets for Emotion Recognition, International Journal of Engineering Research &Technology (IJERT)- Author: Dr.K Johnpeter.

3.A Review on Containerization Technology for Edge Cloud Applications, International Journal of Engineering Research &Technology (IJERT)- Author: Dr.K Johnpeter.

4. A Review on DDOS Detection using Machine Learning, International Journal of Engineering Research &Technology (IJERT)- Author: Dr.Sabu George.

5.A Review of Phishing Email Detection based on Different Machine Learning Methods International Journal of Engineering Research &Technology (IJERT)- Author: Dr.Sabu George.

6.A Review of Preprocessing Methods and Pre-Trained Models for COVID-19 Detection using Medical Images, International Journal of Engineering Research &Technology (IJERT)- Author: Dr.Sabu George.

7.Analysis of Intrusion detection in cyber attacks using DEEP learning neural networks, Springer : Peer – to- Peer Networking and Applications, Author: Dr C.Sahaya Kingsly.

8.A review on prediction of cardiovascular Disease on Machine Learning Techniques, International Journal of Engineering Research &Technology (IJERT)- Author: Dr. C Sahaya Kingsly.

9.Analysis of Intrusion detection in cyber attacks using DEEP learning neural networks, Springer : Peer – to- Peer Networking and Applications, DOI:10.1007/s12083-020-00999-y14(6245):1-20 Auhtor: Dr. C.Sahaya Kingsly

10.A review on prediction of cardiovascular Disease on Machine Learning Techniques, International Journal of Engineering Research &Technology (IJERT)- Author: Dr. C.Sahaya Kingsly

11.A Survey for the early Detection and classification of malignant skin cancer using various techniques, Springer Author: Ms.Jinu.P.Sainudeen

12.A Review on application of Machine Learning and Deep Learning for Intrusion Detection, International Journal of Engineering Research &Technology (IJERT)- Author: Ms.Jinu.P.Sainudeen

13. A Survival Study on resource utilization and task scheduling in cloud , IEEE ISBN:978-16654-

14. A Automated Stress Detection using Machine Learning, International Journal of Engineering Research &Technology (IJERT)- Author: Ms.Neema George.
- 15.Spredictor: A Stock Analysis based on Sentiment, News and Historical Data, International Journal of Engineering Research &Technology (IJERT)- Author: Ms.Neena Joseph.
- 16.A Early Warning System for Landslide Prediction and Mitigation, International Journal of Engineering Research &Technology (IJERT)- Author: Ms.Merlin Mary James.
- 17.A review on intelligent Techniques in vehicular Ad-Hoc Networks, International Journal of Engineering Research &Technology (IJERT)- Author: Ms.Simy Mary Kurian.
- 18.Electricity Theft Detection using Machine Learning, International Journal of Engineering Research &Technology (IJERT)- Author: Ms.Sruthy Immanuel.
- 19.A Shopping based on Product Review Analysis and Virtual Try-on Using Machine Learning, International Journal of Engineering Research &Technology (IJERT)- Author: Mr.Jayakrishnan B.
- 20.A Online Plagiarism Detection And Result Evaluation Using Data Mining And NLP, International Journal of Engineering Research &Technology (IJERT)- Author: Ms.Divya S.B
- 21.A Accident Avoidance and vehicle detection in Hairpins curve using Machine Learning, International Journal of Engineering Research &Technology (IJERT)- Author: Ms.Syamamol
- 22.A Predicting of heart disease using machine learning, International Journal of Engineering Research &Technology (IJERT)- Author: Ms. Roja Thomas
23. A Automated Bus Management System and Location Tracing using GPS And Python, International Journal of Engineering Research &Technology (IJERT)- Author: Ms.Tinu Thomas.
- 24A .Optimal Fusion Technique for Multi-Scale Remote Sensing Images Based on DWT and CNN, IEEE Xplore, pp. 1-6, doi: 10.1109/ICSSS54381.2022.9782239, Author: Dr. Vinodh P Vijayan
- 25.Classification of Motor Unit Action Potential Using Transfer Learning for the Diagnosis of Neuromuscular Diseases, IEEE Xplore, 2022, pp. 1-7, doi: 10.1109/ICSSS54381.2022.9782209., Author: Dr. Vinodh P Vijayan
- 26.Implementation of Super Resolution in Images Based on Generative Adversarial Network, IEEE Xplore, pp. 01-07, doi: 10.1109/ICSSS54381.2022.9782170 Author: Dr. Vinodh P Vijayan
- 27.Survival study on resource utilization and task scheduling in cloud, IEEE Xplore, pp. 1814-1819, doi: 10.1109/ICESC51422.2021.9532743. Author: Dr. Vinodh P Vijayan
28. Brain Tumour Detection by Gamma DeNoised Wavelet Segmented Entropy Classifier, Journal of Computers, Materials & Continua, Tec science Press, Vol.69, No.2, 2021, pp.2093-2109, DOI:10.32604/cmc.2021.018090 Author: Dr. Vinodh P Vijayan

# STUDENT ACHIEVEMENT

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- Review on Containerization Technology for Edge Cloud Applications, Author:Amritha Soloman
- A review on Weed Identification Using Image Processing Techniques in ICCIDT-2022, IJERT Conference Proceeding, Volume.10, Issue.04. Author:Anju Sebastian
- A review of Preprocessing Methods and Pre-trained Models for Covid-19 Detection Using Medical Images in ICCIDT-2022. Author:Grace Philip
- A review on DDOS Detection Using Machine Learning in ICCIDT-2022, IJERT Conference Proceeding, Volume.10, Issue.04 Author:Jeswin Johnson
- A review of Various Deep Learning Models and Datasets for Emotion Recognition in ICCIDT-2022, IJERT Conference Proceeding, Volume.10, Issue.04. Author:Nayana N Panicker
- A review on Prediction of Cardiovascular Disease on Machine Learning Techniques in ICCIDT-2022, IJERT Conference Proceeding, Volume.10, Issue.04. Author: Nivyamol P Varghese
- A review on Age and Gender Recognition Using Various Datasets and Deep Learning Models in ICCIDT-2022, IJERT Conference Proceeding, Volume.10, Issue.04. Author:Premy P Jacob
- A review on Credit Card Fraud Detection Techniques in ICCIDT-2022, IJERT Conference Proceeding, Volume.10, Issue.04. Author:Reethu Elsa Joseph
- A review of Phishing Email Detection based on Different Machine Learning Methods in ICCIDT-2022, IJERT Conference Proceeding, Volume.10, Issue.04. Author:Sharon Abraham
- Dona Elizabeth Saji won second prize NSS day poster making competition.

# STUDENT PLACEMENTS

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Last semester we are so fortunate have many of our students got placed in various companies. Here are the list of students and the companies they got placed.

1. ASWIN M SUTHAN-TCS
2. ASWATHY N - TCS, QUEST GLOBAL
3. LUV SURVE -TCS
4. MILAN SEBASTIAN -TCS
5. YEDHU KRISHNAN -TCS
6. ANJALI J NAIR -TCS, MARLABS
7. CRIST JOSEPH -IBS
8. ANTONY SHINOY- QUEST GLOBAL
9. GANGA P CJANDRAN -QUEST GLOBAL, HTC GLOBAL SERVICES
10. SONIYA BABU -QUEST GLOBAL
11. ALAN JHON -QUEST GLOBAL, IBS
12. ANUMOL SAJAN -QUEST GLOBAL
13. HARSHA ANNA JHON -IBM, IBS, HTC GLOBAL SERVICES
14. ALAN REJI -ZERONE CONSULTANCY

- 15.SONIYA BABU -IBS,INFOSYS,UST
- 16.APARNA BABU -IBS, HTC GLOBAL SERVICES
- 17.ANANTHAKRISHNAN K R -CRON J
- 18.ARYA P -ASPIRE NAICO ITS PVT LTD., INFOSYS, UST
- 19.ANTONY SINOY -ASPIRE
- 20.SNEHA ROY -HTC GLOBAL SERVICES, SUTHERLAND (VOICE)
- 21.ANUMOL SAJAN -HTC GLOBAL SERVICES, INFOSYS
- 22.GODVIN ANNA JHON -HTC GLOBAL SERVICES
- 23.ANJU S -HTC GLOBAL SERVICES
- 24.SREELAKSHMI A M -HTC GLOBAL SERVICES
- 25.ANISH ABRAHAM PUNNOOSE -HTC GLOBAL SERVICES
- 26.BINSON BINOY -FACE PREP,BYJUS,INFOSYS, NEST
- 27.ANNS ISSAC -NAICO ITS PVT LTD.
- 28GINNY MARY JHON -GUIDE HOUSE
- 29.AISWARYA DEVI -SUTHERLAND (VOICE)
- 30.ANJANA S NAIR -SUTHERLAND (VOICE)
- 31.CELINA JYOTHI -SUTHERLAND (VOICE)
- 32.JWEL AUGUSTINE -SUTHERLAND (VOICE)
- 33.LAKSHMI KUNJJUMON -SUTHERLAND (VOICE),UST
- 34.NELSON PAULOSE -SUTHERLAND (VOICE)
- 35.ROOPA G NATH -SUTHERLAND (VOICE)
- 36.SINI M VARGHESE -SUTHERLAND (VOICE)
- 37.ANJANA GRACE GEORGE -FACE PREP
- 38.HARITHA HARIDAS -NAICO ITS PVT LTD.
- 39.SONA M S -SUTHERLAND (VOICE)
- 40.SREELAKSHMI A M -SUTHERLAND (VOICE)
- 41.APARNA BABU -INFOSYS
- 42.JEWEL AUGUSTINE -INFOSYS
- 43AMAL C ANIL -UST
- 44.VISHNU SIVAN -UST
- 45.MUHAYIM SHAREEF -UST
- 46.ALLEN JOE -INNOVATURE
- 47.ARCHANA P UDAYAN -NEST
- 48.SREELAKSHMI -NEST
- 49.JOBIN JOSE -NEST
- 50.AISHWARYA SURESH -SUTHERLAND (NON VOICE)
- 51.ASHA BHADRA S -SUTHERLAND (NON VOICE)
- 52.ASWATHY S -SUTHERLAND (NON VOICE)
- 53.ASWIN ANIL -SUTHERLAND (NON VOICE), IMAGE INFO SYSTEMS
- 54.GINY MARY -SUTHERLAND (NON VOICE)
- 55.NEENU SURESH -SUTHERLAND (NON VOICE)
- 56.PAUL BINO -SUTHERLAND (NON VOICE)
- 57.PAVITHRA P -SUTHERLAND (NON VOICE)
- 58.RESHMA RAVINDRAN -SUTHERLAND (NON VOICE)
- 59.ARYA BINU -SUTHERLAND (NON VOICE)
- 60.JOSEPHINE SHAJAN -SUTHERLAND (NON VOICE)
- 61.ALAN JHON -NEST

# Department of Computer Science & Engineering

## Mangalam College Of Engineering Ettumanoor

### Vision

To become centre of excellence in computing and research where future generations embrace technologies wholeheartedly and use its possibilities to make the world a better place to live

### Mission

Enlight the young talents to achieve academic excellence as well as professional competence by imparting state of the art knowledge in computing and to be admirable individuals with ethical values and appropriate skills.

PEO1(Focus: Domain knowledge & Problem Solving) Graduates will have strong foundation and profound knowledge in computing and be able to analyse the requirements of real world problems, design and develop innovative engineering solutions and maintain it effectively.

PEO2(professional Competence & Life long learning) Graduate will adapt to technological advancements by engaging in lifelong learning and research, there by contribute to computing profession.

PEO3 (Focus: Ethics & Soft skill) Graduate will foster team spirit, leadership, communication, ethics and social values, which will lead to apply knowledge of societal impacts of computing technologies.



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