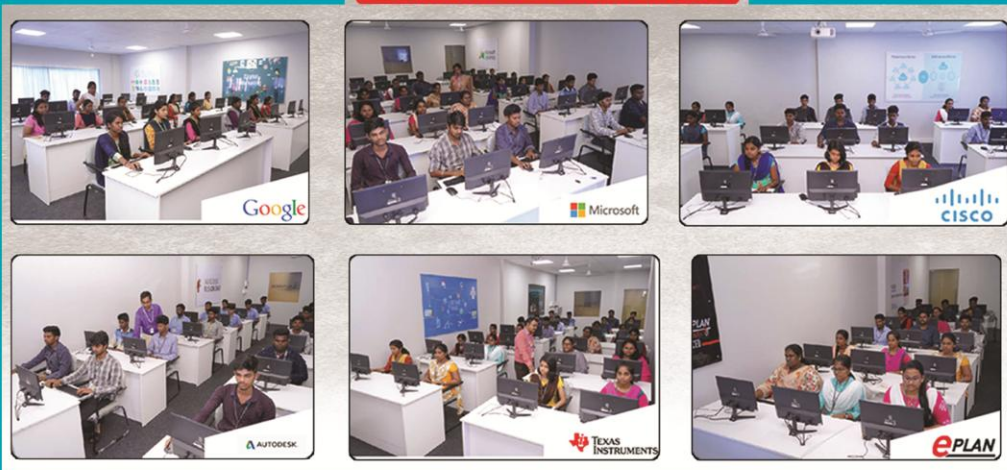# MANAKULA VINAYAGAR INSTITUTE OF TECHNOLOGY

Greeting from
Department of Computer Science and Engineering

CAPTCHA

CSE NEWSLETTER

CENTRE OF EXCELLENCE

Educate ~ Empower ~ Excel

ABOUT THE DEPARTMENT

The Department was started with an intake of 60 students in 2008; the sanctioned intake was increased to 120 seats in 2010. The Department of Computer Science and Engineering has been continuously making progress in Teaching and R & D activities. The Department focuses on preparing the students for wide range of IT careers equipping them with unique enriching experience of molding tomorrow's technocrats with high caliber and commitment.

The Department is well equipped with 180 Computer Systems with latest configuration and also has a separate Department Library with Latest Titles, Editions, Journals, Magazines and also connected with Internet Facility. The Department organizes Seminars, Workshops and Guest lectures to enhance the Technical Skills of the students, so that they can face global competition.

The Department has entered into MoU with IBM NIIT, CMC, Blue Lotus, RIPE, Innovative Services for software training and Faculty Development Programs, besides R&D activities. The Students of the Department have brought out quite number of innovative projects such as Biometrics, MANET etc. The software team of the Department has made laudable contribution by developing software for campus management, attendance help line and on-line test. Many of the students are well placed in leading software companies such as TCS, Infosys, WIPRO, etc.

In CSE Department, Post Graduate M.Tech Programme has been started from the year 2012 with an intake of 18 Students. In our first batch M.Tech Programme, all the 18 Students have been passed in all the Subjects and they have produced 100 % results. In CSE Department, a Department Internal Library is also functioning with 150 titles.

INSTITUTE VISION MISSION VISION

To accomplish excellence in the field of technical education and scientific research on regional, National and International levels through committing to total quality for its faculty, providing excellent infrastructure, research facilities and conducive atmosphere that would motivate the students in the pursuit of knowledge in Engineering and Technology.

MISSION

IM1: To provide in depth knowledge in fundamentals to students to improve their learning and analytical skills.

IM2: To provide our students with the most progressive, relevant and well-rounded academic programs, supporting their learning through advanced and extensive resource

IM3: To promote interaction with industries and other institutes of higher learning to equip our students to face the challenges on real time problems.

IM4: To develop the overall personality of the students to mould them into a good citizen with integrity and morality.

DEPARTMENT VISION AND MISSION

VISION

To impart knowledge with latest technological advancement in the field of Computer Science and Engineering and transform the learners into global contributors as Innovators, Entrepreneurs and Researchers.

MISSION

Department of Computer Science and Engineering is committed

Higher Order Thinking: To impart strong fundamental concepts, analytical and problem solving ability to hone their professional skills.

Continuous Learning: To create an excellent conducive atmosphere for student learning and continuous updation of their knowledge on technology.

Entrepreneurship: To imbibe the spirit of leadership skills to be an active entrepreneur in society with moral values.

Competency: To enhance the creativity in research and to develop the competency of the students in Technological field

PROGRAMME EDUCATIONAL OBJECTIVES

Graduates of Computer Science and Engineering will

PEO1: Employability: Our Graduates shall be suitably employed in allied industries/services with professional competency and knowledge of modern tools.

PEO2: Higher Education: Our Graduates shall be capable to pursue higher studies/research in the field of engineering and management.

PEO3: Entrepreneurship: Our Graduates shall be prepared for a successful career by meeting ever increasing demands required by Computer Science and Engineering profession and enable them to become an entrepreneur.

PEO4: Ethical: Our Graduates cultivate professional and ethical attitudes with effective communication skills, team work and multidisciplinary approach related to engineering issues.

STAFF ACTIVITIES:

➢ Mr.R.Raj Bharath, Mrs.I.Varalakshmi, Mr.D.Lubin Balasubramanian, Mr.R.Sathish Kumar, Mr.A.Sankaran, Mrs.V.Selvi and Mrs. R.Indumathi has attended a five days workshop on "Research Applications in Artificial Intelligence and Machine Learning" conducted at "Velagapudi Ramakrishna Siddhartha Engineering College" on 15-6-2020 to 20-06-2020.

- Dr.N.Poonguzhali, Mr.R.Raj Bharath, Mrs.I.Varalakshmi, Mrs.V.Selvi, Mrs.R.Indumathi and Mrs.R.Saranya has attended a one day workshop on "IPR & patent drafting - a prime concern for academia" conducted at Manakula Vinayagar Institute of Technology, Puducherry" on 26-06-2020.
- Mr.R.Raj Bharath, Mr.R.Sathish Kumar, Mr.P.Sathiyanarayanan, Mrs.R.Saranya has attended a two days workshop on "Research Applications in Artificial Intelligence and Machine Learning" conducted at "Vikas Group of Institutions, Nunna-Vijayawada" on 15-06-2020 to 17-06-2020.
- Mrs.I.Varalakshmi, Mrs.V.Selvi and Mr.D.Lubin Balasubramanian has attended a six days workshop on "Modern IoT Technology Tools and Design for "Real time Application" conducted at "Sri Ram Institute of Technology" on 03-06-2020 to 09-06-2020.
- Dr.N.Poonguzhali has attended Five days FDP on "Blockchain and its Applications" organized GMR Institute of Technology on 10-06-2020 to 15-06-2020
- Mrs.I.Varalakshmi, Mrs.V.Selvi, Mrs.R.Indumathi, Mr.D.Lubin Balasubramanian, Mrs.R.Saranya attended a two days workshop on "Recent Trends in Computer Technology" conducted at "Dr.MGR Educational and Research Institute, Chennai " on 11-06-2020 to 13-06-2020
- Mrs.I.Varalakshmi, Mrs.V.Selvi, Mrs.R.Indumathi has attended a four days workshop on "IoT and Machine Learning" conducted at "G Pulla Reddy Engineering college, Kurnool" on 26-06-2020 to 30-06-2020.
- Mrs.I.Varalakshmi and Mrs.R.Saranaya has attended a eight days workshop on "Learning management system & E-content development tools" conducted at "Hindusthan college of arts and science, tamilnadu "on 01-07-2020 to 08-07-20
- Mrs.V.Selvi, Mr.D.Lubin Balasubramanian, Mrs.I.Varalakshmi and Mrs.R.Indumathi has attended a three days workshop on "Recent Technologies in Cloud Computing and IoT" conducted at "SRM Institute of Science and Technology, Chennai" on 08-07-2020 to 11-07-20
- Dr.N.Poonguzhali has attended twelve days STTP on "Deep Learning in Image and computer Vision" conducted by AICTE STTP SKCT from 28-10-2020 to 10-11-2020.
- Dr.N.Poonguzhali has attended eight days FDP on "Online Educational Resources For Effective Remote Teaching" conducted by Pondicherry University from 10.08.20 to 17.08.20
- Mrs.I.Varalakshmi and Mrs.R.Saranya has attended a five days workshop on "AICTE-AQIS sponsored "Recent Trends in IoT and IIoT for Real world applications through LoRa and LoRaWAN " conducted at "Bannari Amman Institute of Technology" on 16-11-2020 to 21-11-20
- Dr.N.Palanivel, Mrs.I.Varalakshmi and Mr.D.Lubin Balasubramanian has attended a five days workshop on "AICTE-ISTE sponsored Internet of Things Applications" conducted at "Abha Gaikwad-Patil College of Engineering, Nagpur" on 2-11-2020 to 7-11-20
- Mrs.I.Varalakshmi attended a sixteen days workshop on "AICTE sponsored "Applications of Augmented Reality (AR) & Virtual Reality(VR) using MATLAB" conducted at "IFET College of Engineering, Villupuram" on 16-10-2020 to 2-11-20
- Mrs.V.Selvi and Mrs.R.Indumathi has attended a four days workshop on "Health GIS: Geoinformatic for COVID'19" conducted at "IIRS" on 15-6-2020 to 19-06-20
- Mr.D.Lubin Balasubramanian, Mrs.V.Selvi and Mrs.R.Indumathi has attended a thirteen days workshop on "AICTE sponsored on "Ideas and Innovation in Block Chain Architecture

Technology and its Reasearch Applications" conducted at "Syed ammal Engineering College" on 16-11-2020 to 29-11-2020

- Mrs.V.Selvi and Mrs.R.Indumathi attended a two days workshop on "Research Application in Artificial Intelligence and Machine Learning" conducted at "Vikas College of Engineering and Technology Vijayavada" on 15-6-2020 to 17-6-2020
- Mrs.V.Selvi and Mrs.R.Indumathi attended a five days workshop on "PHP MySql" conducted at "Association with Spoken Tutorial Team Organised by Syed Ammal Engineering college " on 29-6-2020 to 4-7-2020
- Mrs.V.Selvi and Mrs.R.Indumathi attended a four days workshop on "Cyber Security" conducted at "Lakireddy Bali Reddy College of Engineering Andra Pradesh" on 26-6-2020 to 30-6-2020
- Mr.D.Lubin Balasubramanian, Mrs.V.Selvi and Mrs.R.Indumathi attended a four days workshop on "Exposure and Rejuvenation of Technologies in changed era of the world" conducted at "Rajkumar Goel Institute of Technology Uthra Pradesh" on 6-7-2020 to 10-7-2020
- Mrs.V.Selvi and Mrs.R.Indumathi attended a four days workshop on "Blockchain Technology and Cyber Security" conducted at "Vikas group of Institution in association with TRYLOGIC" on 9-7-2020 to 12-7-2020
- Mrs.V.Selvi and Mrs.R.Indumathi attended a four days workshop on "Image Processing and Data Science with MATLAB" conducted at "Government College of Engineering Aurangabad (TEQIP-III)" on 7-7-2020 to 11-7-2020
- Mr.D.Lubin Balasubramanian, Mrs.V.Selvi and Mrs.R.Indumathi attended a two days workshop on "Python Numpy for Beginner" conducted at "Vikas College of Engineering and Technology Vijayavada" on 7-7-2020 to 11-7-2020
- Mr.D.Lubin Balasubramanian, Mrs.V.Selvi and Mrs.R.Indumathi attended a five days workshop on "Cyber attacks and Digital forensics" conducted at Mahatma Gandhi Institute of Technology in Association with Indian Servers on 20-7-2020 to 24-7-2020
- Mr.P.Sathiyanarayanan attended a five days workshop on "Internet of Things and its Applications [Phase-II]" conducted at "SRM Valliammai Engineering College" on 16-11-2020 to 21-11-2020
- Mr.P.Sathiyanarayanan attended a five days workshop on "Fundamentals of Kotlin (online Live FDP)" conducted at "ICTACT" on 09-11-2020 to 13-11-2020
- Mr.P.Sathiyanarayanan attended a two days workshop on "Amazon Web Services (AWS)" conducted at "R.M.K. Engineering College." on 4-06-2020 to 05-06-2020
- Mr.P.Sathiyanarayanan attended a one day workshop on "Neural Networks - Journey from Shallow to Deep Learning" conducted at "JAIN (Deemed-to-be University) " on 05-06-2020
- Mr.A.Sankaran attended a four days workshop on "Advanced Data Science and its Applications" conducted at "BVRIT HYDERABAD College of Engineering for Women " on 22-06-2020 to 26-06-2020
- Mr.A.Sankaran attended a five days workshop on "IOT & Its Applications in Industry" conducted at "Ramrao ADIK Institute Of Technology " on 8-06-2020 to 12-06-2020
- Mr.A.Sankaran attended a six days workshop on "Blockchain" conducted at "ATAL" on 20-06-2020 to 25-06-2020
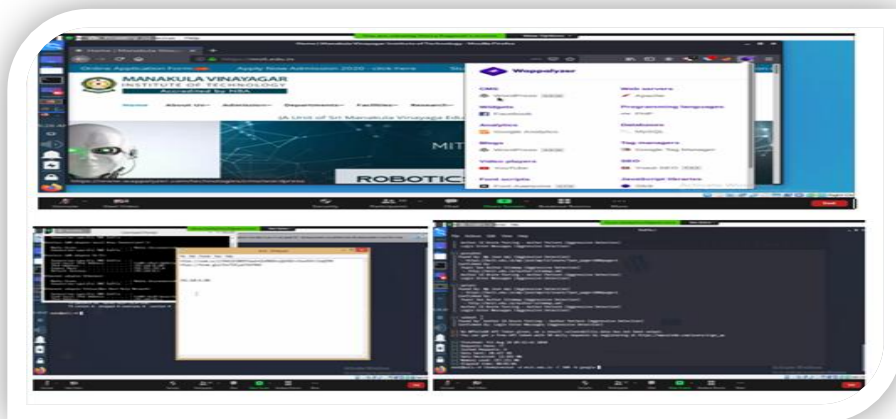
- Dr.N.Palanivel, Mr.R.Sathish Kumar, Mr.S.Ashok kumar, Mrs.V.Selvi and Mr.R.Sathish Kumar has attended a six days workshop on "Digital Marketing" conducted at "ICT Academy, chennai" on 15-6-2020 to 20-06-2020
- Mrs.R.Saranya has attended two days FDP on "Tips for clearing Patent agent examination" organized by Velammal Engineering College on 06.06.2020 and 07.06.2020
- Mrs.R.Saranya has attended three days FDP on" Machine Learning using Python" organized by S.I.A College of Higher Education on 23.06.2020 to 25.06.2020
- All CSE faculty members has attended ATAL FDP on "Emerging thrust areas(Cyber Security, AI, Machine learning, Block chain, Robotics)" from June to November 2020.
- Dr. N. Palanivel has published the paper titled "Recommendation System Based Smart Shopping Cart " in Journal of Emerging Technologies and Innovative Research on June 2020
- Varalakshmi.I has published the paper titled "Detection of abnormal activities using Diffusion convolutional algorithm- Recurrent Neural Networks" in International Journal of Management Technology and Engineering(IJMTE) on June 2020
- Varalakshmi.I has published the paper titled "Smartpay – Unified Payment System using NFC" International Research Journal of Engineering and Technology (IRJET) on October 2020

- R.Raj Bharath has published the paper titled "Partial Face Recognition Using Dynamic Feature Matching And CNN" and "Text Detection and Recognition in Multiscript" in Journal of Emerging Technologies and Innovative Research (JETIR) on July 2020
- P.Anandajayam has published the paper titled "Brain Tumor Segmentation using Fully Connected Convolutional Neural Network (FCNN)" in International Research Journal of Engineering and Technology (IRJET) on Oct 2020
- R. Sathish kumar has published the paper titled "Stock Price Prediction Using Deep Learning and Sentimental Analysis" in Journal of Emerging Technologies and Innovative Research (JETIR) on June 2020.
- D Lubin Balasubramanian has published the paper titled "Study on Evolutionary Approaches for Improving the Energy Efficiency of Wireless Sensor Networks Applications" in European Union Digital Library on Oct2020
- D Lubin Balasubramanian has published the paper titled "Binary Monkey-King Evolutionary Algorithm for single objective target based WSN" in European Union Digital Library on July 2020
- Mr.S.Ashok Kumar,Mrs.R.Indumathi and Mrs.V.Selvi has published the paper titled "Jammer to detect and avoid hidden camera using EMP waves" in Solid State Technology on November 2020
- Mr.S.Ashok Kumar has published the paper titled "Preserving Android User Privacy by detecting Malicious Applications" in Journal of Emerging Technologies and Innovative Research on September 2020
- Mr.S.Ashok Kumar has published the paper titled "Automatic Patch Generation System Using Deep Learning Techniques" in Journal of Emerging Technologies and Innovative Research on September 2020
- Mr.A.Sankaran has published the paper titled "Botnet Detection Using Machine Learning" in International Research Journal of Engineering and Technology (IRJET) on July 2020

- Dr.S.Pariselvam has presented a paper entitled as "Seizure Detection Using Novel Wrist-Worn Biosensor" in International Conference ICSCAN'20 on 3rd July 2020 & 4th July 2020.
- Dr.S.Pariselvam has presented a paper entitled as "An Interaction System Using Speech And Gesture" in International Conference ICSCAN'20 on 3rd July 2020 & 4th July 2020.
- Mrs.I.Varalakshmi has presented a paper entitled as "Performance analysis of various machine learning algorithm for fall detection- A survey" in International Conference ICSCAN'20 on 3rd July 2020 & 4th July 2020.
- Dr. N. Palanivel has presented a paper entitled as "Automatic Number Plate Detection in Vehicles using Faster R-CNN" in International Conference ICSCAN'20 on 3rd July 2020 & 4th July 2020.
- Mrs.R.Saranya has presented a paper entitled as "Computer vision on identifying person under real time surveillance using IoT" in International Conference ICSCAN'20 on 3rd July 2020 & 4th July 2020.

- Dr.N. Poonguzhali has presented a paper entitled as "A Framework For Electronic Health Record Using Blockchain Technology" in International Conference ICSCAN'20 on 3rd July 2020 & 4th July 2020.
- Dr.N. Poonguzhali has presented a paper entitled as "Prediction of Breast Cancer Using Electronic Health Record" in International Conference ICSCAN'20 on 3rd July 2020 & 4th July 2020.
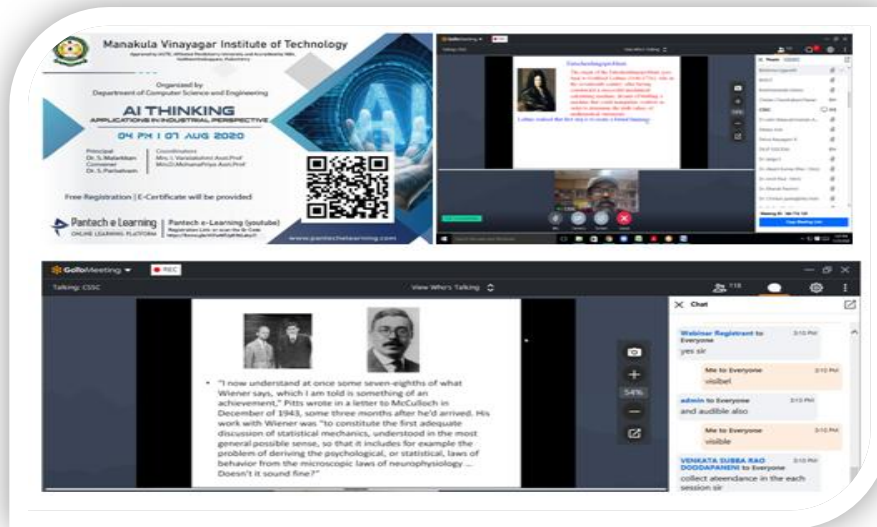
Students Activity:

- SRIKANTH ,VISHVAPRIYA D,MOHAMMED SALEEM,BALAKUMARAN RAMU,J G SRI BALAJI,YOGESHWARAN ,PAVITHRA M,SAHANA ASHOK, the students has completed NPTEL Certification Course, duration of Eight week Course.
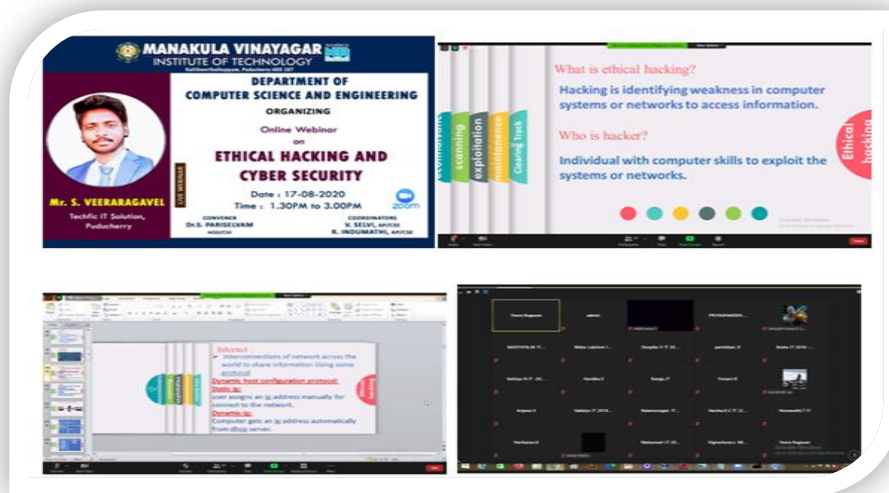
Department Activities:

CSI sponsored one day online workshop **on "Software Testing using Selenium"** conducted by **Mr. Dhilip Kumar , software analyst. TCS, Chennai** for IV year students on 30th July 2020.
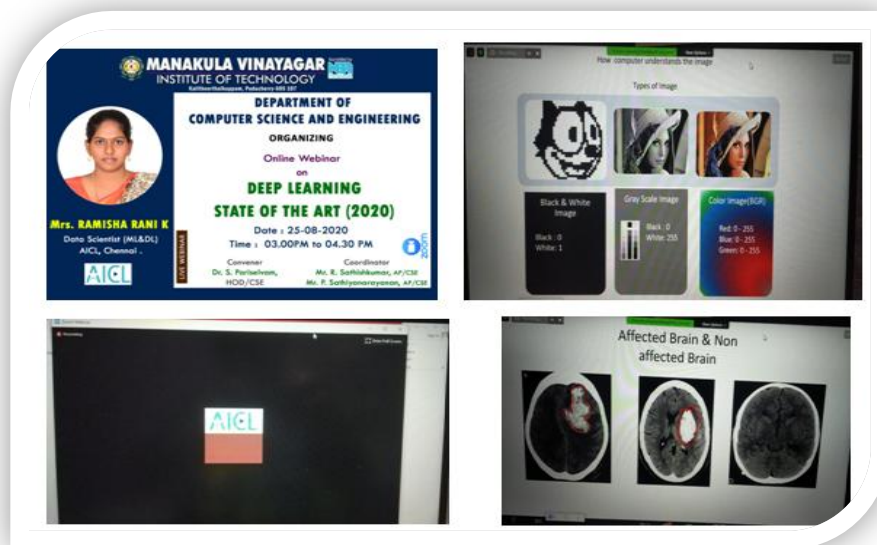
CSI sponsored online Webinar on **"AI Thinking"** conducted by **Mr.Jishnu, Project Engineer, Pantec Solutions, Chennai** for III year students on 7th August 2020.
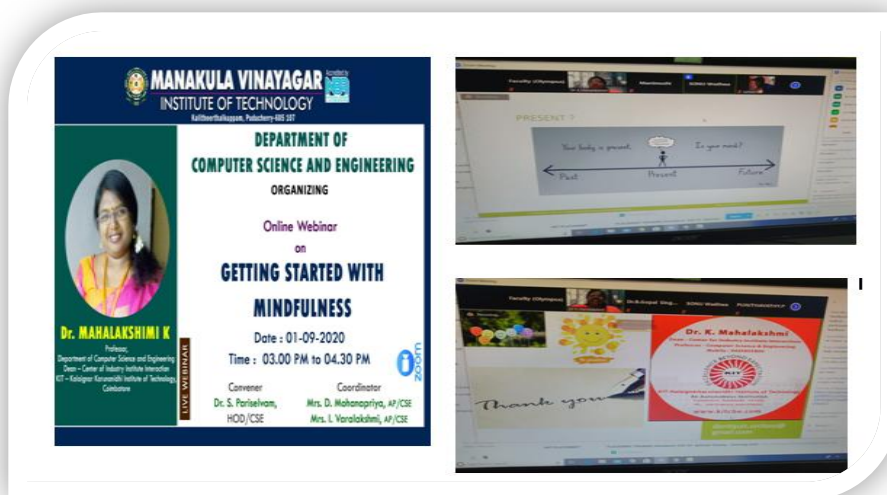

CSI sponsored online Webinar on **"Security Issues in Internet of Things"** conducted by **Dr. S.Sujatha, Professor & Head, Anna University – BIT Campus, Trichy** for III year students on 11th August 2020.

CSI sponsored online Webinar on **" Ethical Hacking and Cyber Security "** conducted by Mr.S.Veeraragavel Techfic IT Solution Puducherry for III year students on 17th August 2020.

CSI sponsored online Webinar on **"Deep learning state of art 2020"** conducted by **Mrs. Ramisha Rani K Data scientist, AICL Chennai,** for III year students on 25th August 2020.

CSI sponsored online Webinar on **"Getting Started with Mindfulness"** conducted by **Dr.K.Mahalakshmi, Dean –KIIT Department of CSE, Coimbatore** for III year students on 1st September 2020.

CSI sponsored One Day online Workshop on **JAVA – Redis and Hibernate Basics** Conducted by
Mr. Vellai varanan ,Technical Trainer, Comet Softwares, Chennai.
for III year students on 10th September 2020.

- CSE Department organized **Webinar** on **Introduction to Data Science Machine Learning and Python** by **Praful Patle, Data Science Professional @ Tesco, Bangalore**, for II and III Year CSE Students on 18/06/20.
- CSE Department organized webinar series on various topics to develop the students skill development by various expert resource person on 22/06/2020 to 26/06/20.
- CSE Department organized **Webinar** on **Introduction to Azure IoT** by **Mr. Saravanan Ganesan Module Lead IOT, L&T Infotech, Chennai** for II and III Year CSE Students on 20/06/2020.

- CSE Department organized **Webinar** on **DART Programming Language** conducted by **Braino Vision** Pvt,Ltd, Hyderabad,for II and III Year CSE Students on 27/07/2020.
- CSE Department organized **Webinar** on **Workshop on "software Testing using selenium** by **Dhilip Kumar , software analyst. TCS, Chennai** ,for II and III Year CSE Students on 30/07/20.
- CSE Department organized **Webinar** on **Machine Learning & Deep Learning** by Mr.Ahamed IIM-Bangalore Alumini Vice-President Imarticus Learning, Puducherry,for II and III Year CSE Students on 09/09/2020.
- CSE Department organized Five FDP on" **Artificial Intelligence using Python "** by Intisar Mehdi Corporate Trainer- IBM, Verizon etc, Chennai. For all department Faculties on 14/09/20 to 19/09/20
- CSE Department organized **IIRS Outreach Programme** on various topics conducted by various IIRS/IRSO Scientist for Faculties and students on various dates.

PATENT DETAILS

Sl. No.	Name of the Faculty	Name of the Patent	Patent No	Published Date
1	Dr.N.Palanivel	Automatic Detection and Notification of Potholes and Hump to the aid Drivers	202041030851	30/10/2020
2	Mrs.I.Varalakshmi	Smart Bin Monitoring System using Internet of Things	202041030847	
3	Mr.R.SathishKumar	Head Gesture And Voice Controlled Intelligent Wheel Chair System	202041030840	
4	Dr.N.Pariselvam	Seizure Detection Using Novel Wrist-Worn Biosensor	202041030839	Under processing
5	Mr.A.Sankaran	Venflon and Iv Set Monitoring	201941006456	11/09/2020
6	Mr.A.Sankaran	Case To Preserve Water From unwanted usage	201841025832	11/09/2020

EDITORIAL BOARD

STUDENT EDITORS

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MAHALAKSHMI -II-A

BUVANESHWARAN- II-B

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