



**VIT**<sup>®</sup>  
**Vellore Institute of Technology**  
 (Deemed to be University under section 3 of UGC Act, 1956)

# SCHOOL OF COMPUTER SCIENCE ENGINEERING AND INFORMATION SYSTEMS(SCORE)

The official Techno Newsletter - SCORE

JULY - SEPTEMBER 2023



- HACKATHONS**
- FOREIGN EXPERT TALKS**
- INTERNATIONAL GUEST VISITS**
- EVENTS-WORKSHOP/SEMINAR/FDP**
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## VISION

- To be a center of excellence in education and research in Information Technology, producing global leaders for the improvement of the society.

## MISSION

- To provide sound fundamentals and advances in Information Technology, Software Engineering, Smart Computing and Computer Applications.
- To create ethically strong leaders and trend setters for the next generation IT.
- To pursue outstanding and impactful research to achieve sustainable growth for the benefit of humanity.

## FROM DEAN'S DESK



**DR. S. SUMATHY,  
DEAN, SCORE  
DEAN.SCORE@VIT.AC.IN**

Dear Readers,

It is indeed a matter of immense pleasure to launch the latest edition of the official techno e-newsletter for the School of Computer Science Engineering and Information Systems (SCORE). This issue evidences the landmark event of the transition from the School of Information Technology & Engineering to the School of Computer Science Engineering and Information Systems (SCORE) and recounts all the imperative events and activities that have happened during the period of July – September, 2023.

Our school has conducted a plethora of activities in the form of seminars, guest lectures, foreign expert talks, workshops, value added courses, Design-a-thons, and Faculty Development Programs during this period involving our enthusiastic students, research scholars and faculty members.

The research contributions of the faculty members have been gleamingly projected by their inclusion in the Top 2% list of scientists compiled by the Stanford University and Elsevier. Also, the significant effort of the research scholars and their mentors have been reflected in the list of Raman research awards during this period.

This issue highlights the incredible achievements of our students in various academic and sports activities which accentuate their motivation to excel in all spheres of life, as we strongly believe that “Continuous Improvement is an Unending Journey” – Lloyd Dobyns

Thus, the essential component is a roundup of all the significant happening @SCORE. A huge round of applause to all the individuals who have contributed to the same.

We sincerely hope that this issue will be an interesting read for all of you.

Happy Reading!!!  
Dr. Sumathy S

HACKATHONS



An IoT Data Analytics Hackathon took place from May 8th, 2023 to August 8th, 2023.



Code-a-thon for BCA & B.Sc. (CS) final year, students, conducted on September 30, 2023



FOREIGN EXPERT TALKS



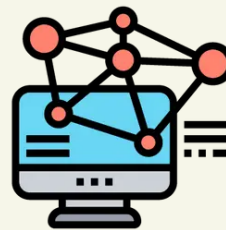
Professor Derek Shouba, Vice President of Academic Affairs at Calumet College of St. Joseph, Greater Chicago, United States gave a knowledgeable talk on Software Egg. Economics to Real: World Software Economic issue on July 26, 2023.



On August 31, 2023, Prof. Azham Bin Hussain, Dean of the School of Computing at Universiti Utara Malaysia, Kedah, gave a foreign lecture about Effective Requirements Capturing Process and Human Computer Interaction for Black Box Testers.

Dr. Besma Smida, Associate Professor at the University of Illinois at Chicago's School of Electrical and Computer Engineering, gave a talk on wireless communication for low-power Internet of Things.

Tech Trends



Quantum Computing

Quantum computing, which uses subatomic particles to develop new ways to process and store data, is expected to make it possible for computers to be a trillion times faster than the fastest regular processors currently available.

The risk of quantum computing is that it could render our present encryption techniques ineffective. As a result, any nation that invests heavily in the development of quantum computing has the potential to break the encryption employed by other nations, businesses, security systems, and other organizations.

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INTERNATIONAL GUEST VISITS



Ms. Vidhi Sahae, Senior Global Partnerships Manager, (South Asia, Southeast Asia, Australia), NTU Global visited our school on July 06, 2023.



On July 27, 2023, Professor Besma Smida, Co-Director of Networks Information Communications and Engineering Systems—NICEST Lab Chicago, interacted with faculty and research scholars.



Dr. Mohamed Rawideean Mohd Kassim, Malaysian Institute of Microelectronic Systems, Malaysia delivered an expert talk on September 19, 2023.

Professor Vijayan Sugumaran from Oakland University in the United States interacted with faculty members and research scholars on July 28, 2023,

On July 25, 2023, Prof. Derek Shocha, Vice President of Academic Affairs at Calumet College of St. Joseph Greater Chicago Area, paid a visit to discuss academic matters.

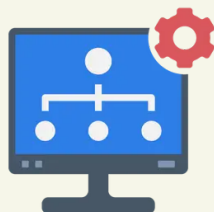


On August 16, 2023, the faculty had a discussion about academic excellence with Professors Azham Bin Hussain, School of Computing, Universiti Utara Malaysia, and Besma Smida, Associate Professor of Electrical and Computer Engineering at the University of Illinois at Chicago.



On August 30, 2023, Prof. Azham Bin Hussain, Software Engineering Professor at the School of Computing at Universiti Utara Malaysia, interacted with the faculty members about academic excellence.

Tech Trends



Hyperautomation

Hyperautomation enables the automatic completion of repetitive activities without manual or human input. It uses Robotic Process Automation (RPA), machine learning, and artificial intelligence (AI) to alter old and new machineries. An organization can thrive in a more competitive environment by utilizing digital transformation ensuring cost and resource efficiency.



Industry Cloud Platforms

The utilization of cloud platforms enables businesses to achieve enhanced agility in their workload management. Such platforms can speed up changes to compliance processes, data analysis, and business operations. It integrates platforms, software, and infrastructure as a service to maximize adaptability, accelerate time to value, and suit the needs of vertical industrial sectors.

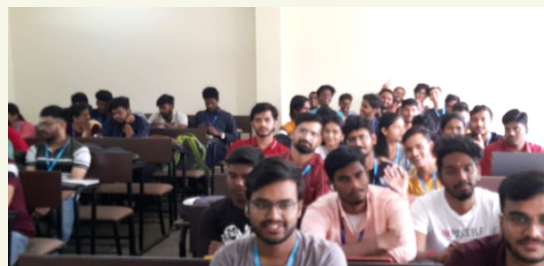
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EVENTS - WORKSHOPS/SEMINARS/FDP



Rapid prototyping for Internet of Things Applications Seminar, conducted on July 12, 2023



Seminar on Current Network Trends, conducted on July 12, 2023

One-day International Workshop on Creating Smart Curriculum and Personalized Delivery Methodologies: Industry 4.0 Perspectives, held on July 14, 2023

One-day Workshop on Final Project Roadmap, held on February 8, 2023

Half-day workshop on Digital Logic and Design for UG Third year students (BCA and B.Sc.(CS)), conducted on August 5, 2023

Five days Training Programme sponsored by Bureau of Police Research & Development, New Delhi, conducted on August 16, 2023

Half-day workshop on Digital Logic and Design for Third Year UG Students (BCA), conducted on August 22, 2023

Two-day Cybersecurity Awareness Workshop was, organized on August 25, 2023

Design-a-thon activity on "User Interaction Design and User Experience", held on August 25, 2023



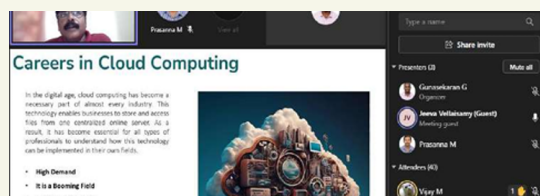
Research, Publication, and Citation Seminar: Path to Academic Success, held on August 30, 2023



Professor Azam Bin Hussein, Dean, School of Computing, Universiti Utara Malaysia, Kedah, delivered a lecture on Human-Computer Interaction for Black Box Testing on August 31, 2023.



One-day Industry and Academic Conclave was, organized on Industry 5.0 on September 1, 2023



Session on Career Opportunities in IT Industry for BCA and B.Sc (CS) Final Year Students was, organized on September 30, 2023

nVIDIA Deep Learning Institute hosted a One-Day Workshop on Deep Learning Fundamentals on September 30, 2023.



Metaverse

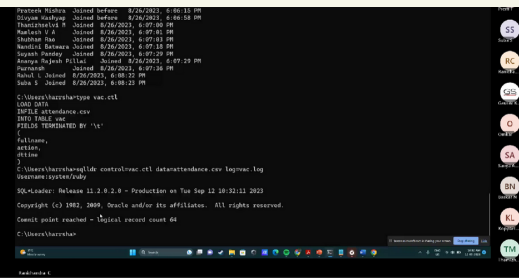
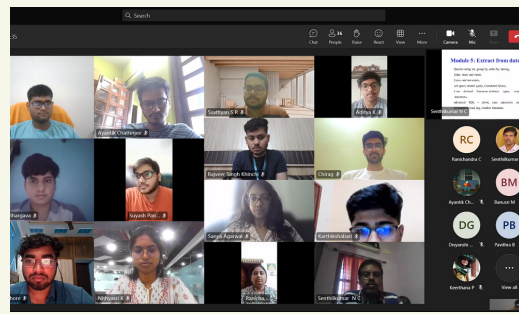
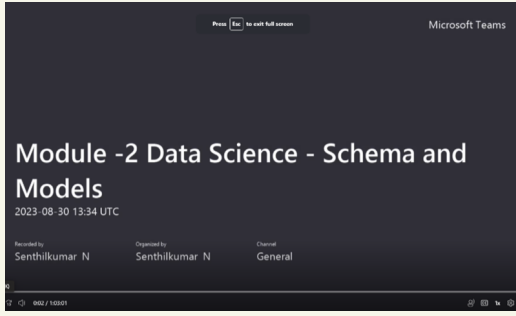
Tech Trends

Metaverse is a profoundly immersive 3D virtual world experience obtained using a combination of AR, VR, and MR technologies. It creates a virtual world where users may play games, interact socially, conduct business, and more. Also metaverse provides an unique opportunity to develop a more sustainable, diverse and inclusive future on the internet.

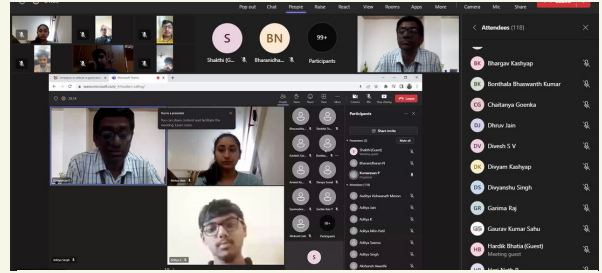
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VALUE ADDED COURSE

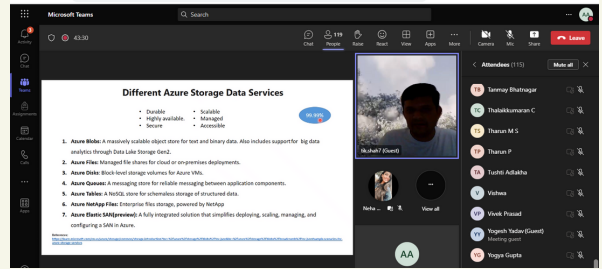
GUEST LECTURES CONDUCTED



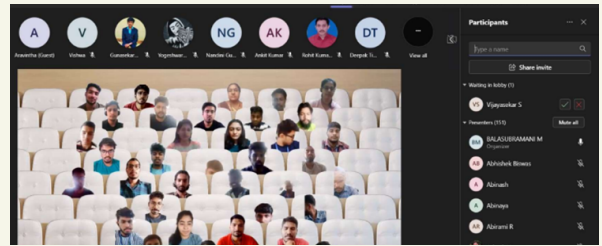
SQL for Data Science value-added course offered from August 21, 2023 to August 30, 2023



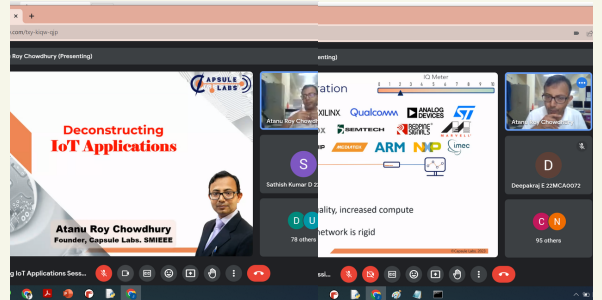
Guest lecture on rapid prototyping for IoT applications held on December 7, 2023



Guest lecture on Azure Storage services and storage management held on July 26, 2023



Guest lecture on data analysis for IoT applications held on February 8, 2023



Guest lecture on “Deconstructing IoT Applications” held on August 5, 2023

Software Engineering Success – Past, Present and Future Guest Lecture on September 27, 2023

Tech Trends

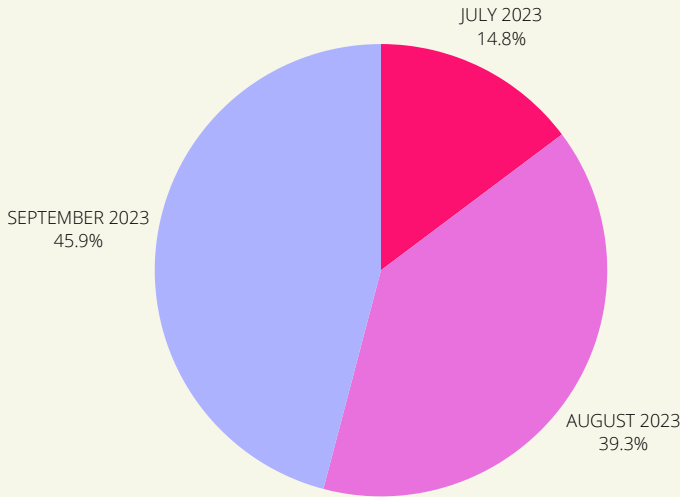


Artificial Intelligence

Artificial intelligence is the simulation of human intelligence processes by machines, especially computer systems. Specific applications of AI include expert systems, natural language processing, speech recognition and machine vision.

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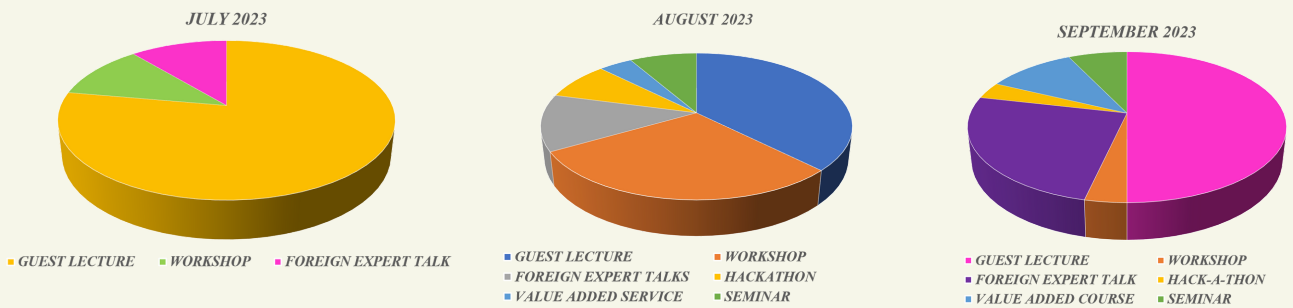
EVENTS ORGANIZED



**JULY 2023**  
Events conducted: 09

**AUGUST 2023**  
Events conducted: 24

**SEPTEMBER 2023**  
Events conducted: 28



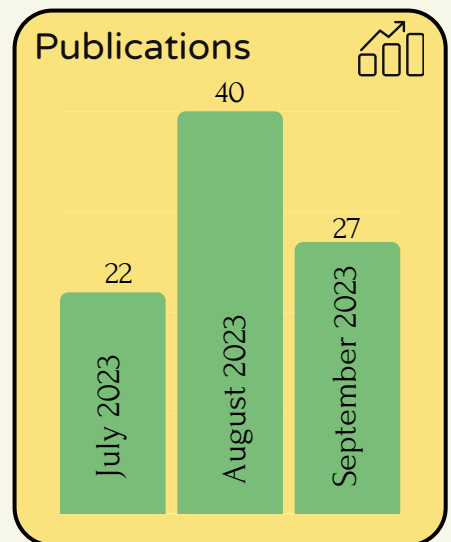
# Faculty Publications

PERIOD: JULY 2023 TO SEPTEMBER 2023



## ANALYTIC OVERVIEW

Publications count  
**89**  
Articles





RESEARCH SCHOLAR ACHIEVEMENTS

RAMAN RESEARCH AWARDS

Month	Research Scholar	Article Titled
JULY 2023	Devika Menon	Digital Twin: Exploring the Intersection of Virtual and Physical Worlds
	Supriya Y	A Survey on Soft Computing Techniques for Federated Learning-Applications, Challenges and Future Directions
	Aberna P	Multi-image Feature Map-Based Watermarking Techniques Using Transformer
	Sreeraag G	From Fake Reviews to Fake News: A Novel Pandemic Model of Misinformation in Digital Networks
AUGUST 2023	Jayashree S	LAPEP—Lightweight Authentication Protocol with Enhanced Privacy for effective secured communication in vehicular ad-hoc network”
	Ramesh B	Multi Head Deep Neural Network Prediction Methodology for High-Risk Cardiovascular Disease on Diabetes Mellitus
	Steve mathew DA	An Experimental Study on the Deviations in Performance of FNNS and CNNs in the Realm of Grayscale Adversarial Images
	Dinesh K	Energy-efficient trust-aware secured neuro-fuzzy clustering with sparrow search optimization in wireless sensor network

PH.D ORAL VIVA COMPLETED

MONTH	RESEARCH SCHOLAR	GUIDE NAME
JULY 2023	Pravinkumar Mahadeorao Sonsare	Dr. Gunavathi C
	M Sandeepkumar	Dr. prabhu J

STUDENT ACHIEVEMENTS



The Team “AI Overflow”, comprising of Mr. Subhanu Sankar Roy (20BIT0151), Mr. A Chethan Reddy (20BEE0197) and Mr. A Harsha Vardhan Reddy (23BID0011), represented VIT and won the runner-up position and a cash prize of Rs.1.5 Lakh rupees at Axis Bank LLM Bancathon.



Name	Registration Number	Position
Sai Shravan	21BIT0471	First
Adit Tiwari	21BEI0131	Second
Yash Prabhu	21BIT0240	Third



Ms.T.Tarshiya (I MCA) brought glory to VIT by winning the silver medal at the Open National Indoor Archery Championship 2023, held in Erode on July 9, 2023.

# ADVISORY TEAM

Dean – Dr. Sumathy S

Associate Dean – Dr. Dhinesh Babu L D

HoD Smart Computing – Dr. Parimala M

HoD Software and Systems Engineering – Dr. Neelu Khare

HoD Information Technology – Dr. Prabhavathy P

HoD Computer Applications – Dr. Vanitha M

## EDITORIAL TEAM:



Dr. Sweta Bhattacharya

Dr. Siva Rama Krishnan S

Dr. Senthilkumar T

Dr. Mohana Priya P

Thank  
you

"Think before you speak. Read before you think"

- Fran Lebowitz