VIT®

Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

School of Computer Science Engineering & Information Systems

THE OFFICIAL TECHNO E-NEWSLETTER OF SCORE

JANUARY-MARCH 2024

FROM THE DEAN'S DESK

Dear Readers,

It is indeed a matter of immense pleasure to launch this academic year's First edition of the official Techno E-Newsletter for the School of Computer Science Engineering and Information Systems (SCORE).

During this period, the school organized the Second International Conference on Emerging Trends in Information Technology and Engineering (ic-ETITE '24) on February 22nd to 23rd, 2024, providing an unparalleled platform for the dissemination and discussion of cutting-edge research in Information Technology and Engineering.

This issue as always, features various activities conducted by the school fostering continuous learning, critical thinking and problem-solving skills to ensure industry readiness among students. In this regard, various expert lecture sessions, hackathons, and value-added courses have been conducted.

The outstanding accomplishments of the students and committed faculty members are also emphasized, demonstrating their unwavering tenacity and drive for excellence. We send warmest regards to all of the students, research scholars, and faculty members who have reaffirmed their commitment.

We truly hope that this newsletter issue facilitates professional information exchange and serves as an authentic showcase of the various activities and achievements of SCORE and you find this as an interesting read.

Happy Reading!!!
Dr. Sumathy S

Second International Conference on Emerging Trends in Information Technology and Engineering
February 22 - 23, 2024

iC-ETITE'24

Second International Conference on Emerging Trends in Information Technology and Engineering
February 22 - 23, 2024

- Selection of 324 papers out of a staggering 1689 submissions received worldwide
- Selected papers were presented across 32 technical sessions
- Featured 22 distinguished individuals as keynote speakers from worldwide
- TechNext'24 & BOLT2.0 hackathon had 800 registrations

FOREIGN EXPERT TALK

Title: Career Guidance
Expert: Mr. Raghu Bala, CTO, Kresus Labs, California.
Date : 02.02.2024
Coordinators: Prof. Kavitha B R & Prof. Usha Preethi P

Title: Handwritten Alphabet reorganization system of Shan state,
Myanmar using ML.
Expert: Dr. Darli Myint Aung, Professor,
Faculty of Computer Science,
University of Computer Studies (Taunggyi)
Date: 13.03.2024
Coordinators: Dr. Harshita Patel & Dr. Arun Pandian J

Title: Generative AI - Industry Applications
Expert: Mr. Raghu Bala, CTO, Kresus Labs, California.
Date : 01.02.2024
Coordinators: Prof. Sweta Bhattacharya & Prof. Rajeswari C

Title : From Data to Art: Unveiling the World of AI-Driven Image Generation
Expert: Dr. Mariofanna Milanova, IEEE Senior Member, NVIDIA Deep Learning Instructor & Professor ,Computer Science Department, University of Arkansas
Date: 11/03/2024
Coordinators : Dr. P. Shunmuga Perumal & Dr. R.S. Rampriya

Date: 10.01.2024
Coordinator : Prof. Gitanjali J

Title : An Industrial Perceptive: How to get into Big4 Professional Service Firms
Speaker : Mr. Sainath Vasantha
Senior Manager, Deloitte, County Dublin, Ireland.

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FOREIGN FACULTY VISITS

Prof. Rajkumar Roy, Dean - School of Mathematics, Computer Science and Engineering & Dr. Peter Popov, Associate Dean (International), Department of Computer Science, School of Science & Technology, City University of London, UK

Date of Visit: March 7th 2024

HACKATHON

Ethereum Solidity - Blockchain Applications

Mr. Raghu Bala, CTO,
Kresus Labs, California
Date: 28.01.2024
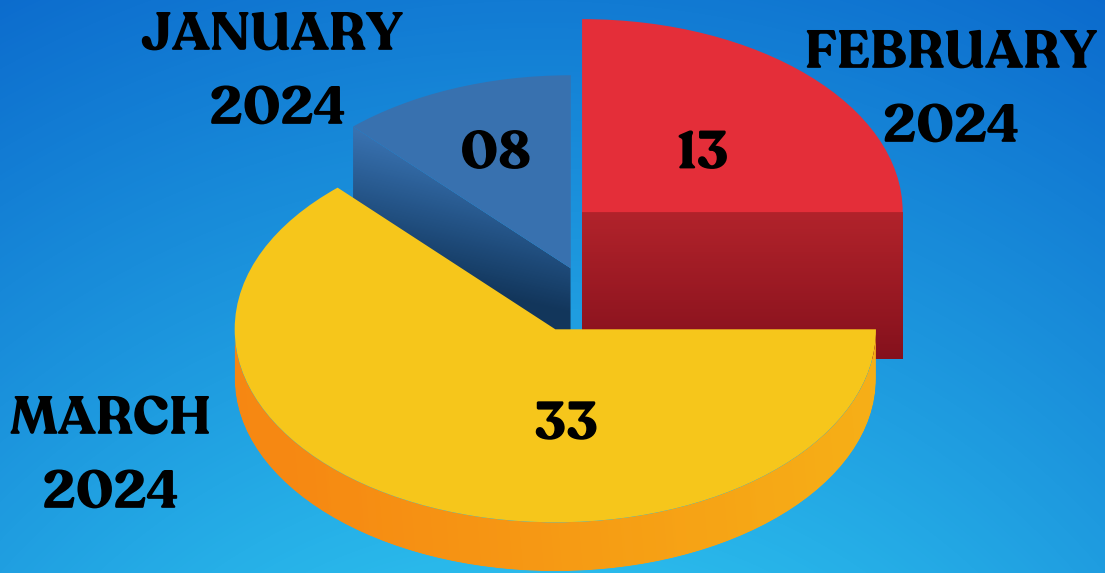Coordinator :
Prof. Srinivas Koppu

VALUE ADDED COURSES

Title : Networking Cardinals
Attendees: BSc, BCA & MCA
Date: March - April 2024
Coordinators:
Dr. Jerat Julus & Dr. R.S. Rampriya
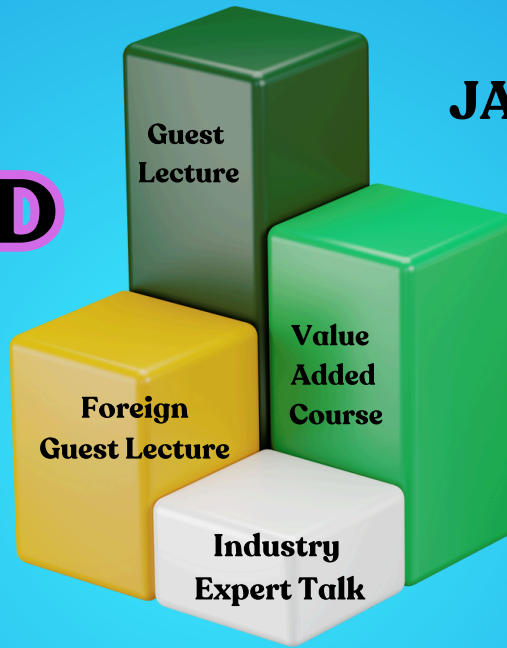
Title : Rust and Web APP Frameworks
Attendees: UG & PG Students
Date: Feb - March 2024
Coordinators: Dr. B. Senthil Murugan,

Title : Requirements Engineering & Management
Attendees: BSc & BCA Students
Date: 18.03.2024 to 20.04.2024
Coordinators : Dr. Gayathri A & Dr. Asha N

"Wisdom is not a product of schooling but of the lifelong attempt to acquire it" - *Albert Einstein*

EVENTS CONDUCTED

JANUARY 2024
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FEBRUARY 2024
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MARCH 2024
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JANUARY 2024

Guest Lecture

Value Added Course

Foreign Guest Lecture

Industry Expert Talk

FEBRUARY 2024

Guest Lecture

Alumni Guest Lecture

Foreign Guest Lecture

Hackathon

MARCH 2024

Guest Lecture

Seminar

Student Enrichment Program

Quality Week - Fun Game

Value Added Course
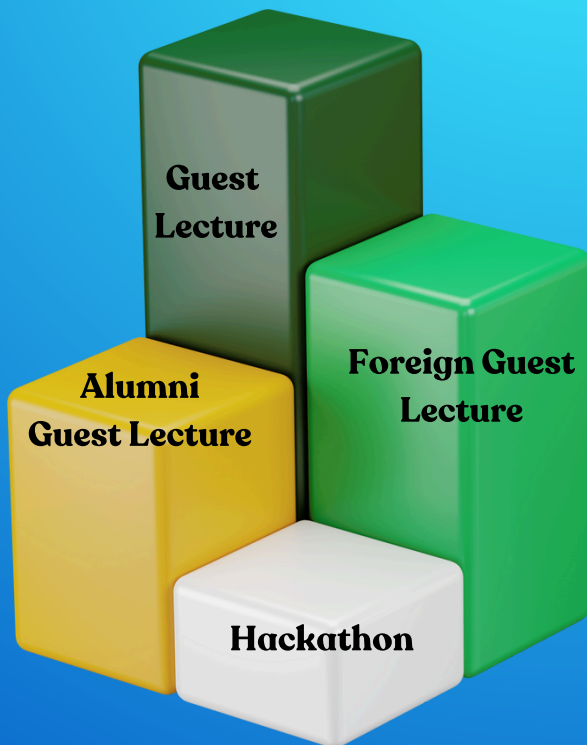
Foreign Guest Lecture
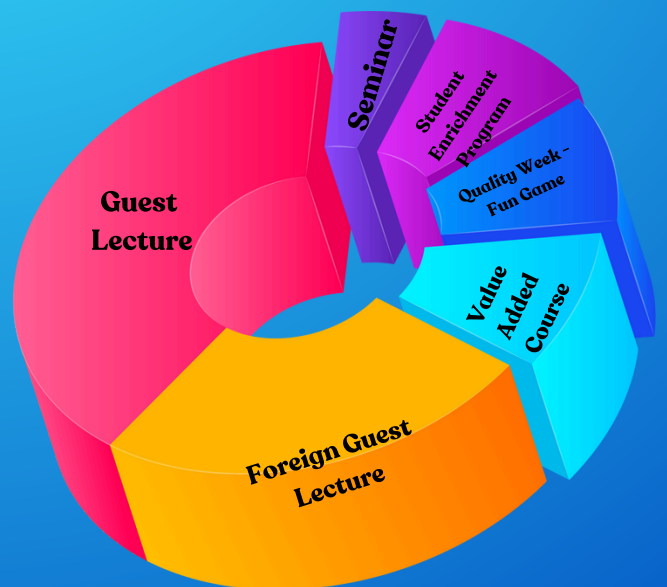
FOREIGN EXPERT & GUEST LECTURES/HACKATHON/INTERACTIVE SESSION

JANUARY 2024

Programme Type	Date	Title of the Programme	Resource Person
Foreign Expert Lecture	12.01.2024	The nexus of Generative AI, Autonomous Agents and Web3	Mr. Raghu Bala, CTO, Kresus Labs, California.
Guest Lecture	19.01.2024	The Interrelationship between Big Data, AI and Cloud Computing	Mr. Raghu Bala, CTO, Kresus Labs, California.
Guest Lecture	24.01.2024	Real - Time Perspectives in Software Process Models and Software ReEngineering	Ms. Banu Priya, Business & Integration Arch, Assistant Manager, Accenture, Bangalore
Hackathon	28.01.2024	Ethereum Solidity - Blockchain Applications	Mr. Raghu Bala, CTO, Kresus Labs, California.
Guest Lecture	31.01.2024	Real - Time Perspectives in Business Modelling and Elicitation Techniques	Ms. Banu Priya, Business & Integration Arch, Assistant Manager, Accenture, Bangalore
Guest Lecture	31.01.2024	The Agile Journey: Embracing Change in Software Development Lifycycle	Mr. Raghu Bala, CTO, Kresus Labs, California.

FEBRUARY 2024

Programme Type	Date	Title of the Programme	Resource Person
Guest Lecture	07.02.2024	Career Planning	Mr. Nishant Gupta, Senior Software Engineer, FrontEnd, Google
Guest Lecture	07.02.2024	Optimization Industry Applications	Mr. Abhik Giri, Principal Operations Research Scientist, Western Digital, Bangalore.
Guest Lecture	07.02.2024	Emerging Trends in Software Engineering	Mr. Abdul Aleem H, IQVIA, Bengaluru.
Guest Lecture	17.02.2024	Realtime Perspectives of Industry 4.0 Applications	Mr. Manikandan P, Chief Technical Officer, CodenPlay Robotics, Bangalore.
Guest Lecture	21.02.2024	Object Oriented Analysis and Design - An Industry Perspective	Mr. Jothi Ramesh, Software Engineer, VxWorks, Chennai
Interactive Session	21.02.2024	Opportunities for Academician and Researcher	Dr.In-Ho Ra, Professor, Kunsan National University Gunsan, Republic of Korea
Interactive Session	21.02.2024	Self-Determined Carrer Research	Dr.In-Ho Ra, Professor, Kunsan National University Gunsan, Republic of Korea
Guest Lecture	28.02.2024	Challenges and Limitations of Machine learning in arrhythmia Classification	Dr. V. Ajantha Devi, Research Head, AP3 Solutions, Chennai

"Simplicity, carried to the extreme, becomes elegance" — Jon Franklin

MARCH 2024

Programme Type	Date	Title of the Programme	Resource Person
Quality Week – Fun Game	04.03.20241	Quality: Realizing your Competitive Potential	Prof.. Chemmalar Selvi G Prof.Santhosh Kumar SVN
Guest Lecture	06.03.2024	Software Quality Aspects	Mr.Bhaskar R N, Head QA & Release
Guest Lecture	07.03.2024	Figma:Collaborative Design Tool for Front End Developer	Mr.Pari Jayapal, Fleet Management Ltd, Chennai
Guest Lecture	08.03.2024	Software Quality Engineering through AI and ML	Mr.Gopalan Muralitharan, Solution Architect and Quality Engineer, Texas Instruments Inc,Bangalore
Guest Lecture	08.03.2024	Software Quality Engineering through AI and ML	Mr.Gopalan Muralitharan,Solution Architect and Quality Engineer,Texas Instruments Inc,Bangalore
Seminar	09.03.2024	Ethical Hacking:Testing the Security of the Systems	Mr.Manivannann Karuppaiah,Senior QA Engineer, Rabo Bank,Sydney
Guest Lecture	13.03.2024	Sensors and Systems for ADAS and Autonomous Driving	Mr.Nithin P V, Continental Autonomous Mobility (India) Pvt.Ltd.ADAS Specialist
Guest Lecture	13.03.2024	Handling Digital Evidence in the Crime Scene	Dr. C Ramakristanaiah, Senior Project Engineer, C-DAC Hyderabad
Guest Lecture	13.03.2024	An Insight into the Improtance of Requirements Engineering	Mr.Lakshminarayanan Ramakrishnan, Co-Founder and Tech Leader, Turiyatree Technolgies,Chennai
Guest Lecture	13.03.2024	Emerging application of ANN:Use Cases and Solutions	Dr.V.Ajantha Devi, Research Head,AP3 Solutions, Chennai
Guest Lecture	20.03.2024	Applications of Software metrics in Industry	Ms. A.M.Gurusigaamani, Technical Trainee Head, CSUITE Tech Labs
Guest Lecture	20.03.2024	Demonstration on Software Engineering Principles in Industry Perspective	Mr. Ramkumar G S, Head of Technology, Finforz Technologies, Chennai
Guest Lecture	20.03.2024	Java Database Connectivity- Industry Perspective	Jahnavi Vetukuri, Developer, TENACIUM DC, Chennai
Guest Lecture	20.03.2024	Future Trends in Digital Electronics	Er. A. Syed Ibrahim

MARCH 2024

| Programme Type	Date	Title of the Programme	Resource Person
Guest Lecture	20.03.2024	Evolution of DBMS- RDBMS and Big Data	Mr. Ravikumar Sankaran, Manager (Cloud, AI/ML & Data), Securekloud Technologies Ltd, Chennai
Guest Lecture	21.03.2024	Multipage Application using Typescript	Mr. Jaya Sakthi K, Founder and CEO, CDIX Innovations Pvt. Ltd, Chennai
Guest Lecture	21.03.2024	Spring boot Framework	Mr. Pandiarajan S, Senior Software Engineer, CDIX Innovations Pvt. Ltd, Chennai
Guest Lecture	23.03.2024	Machine learning and Its Industry Application	Mr. Arun Kumar K, Director, SAP Managed Services, Bangalore
Guest Lecture	23.03.2024	Optimization of user Experience in Human Computer Interaction	Mr. Sasi Varna Kumar S, Chief Executive Officer, TealOrca Software Solution Pvt Ltd, Coimbatore
Guest Lecture	26.03.2024	Developing a SpringBoot application for Database interaction using Hibernate	Mr. Sasi Kumar, Project Technical Manager, Capgemini India Pvt. Ltd, Bangalore
Guest Lecture	26.03.2024	Computing Architecture Design an algorithm to architecture approach	Mr. S Muthukumar, Principal Application Engineer, Cadence Design System, Bangalore
Guest Lecture	27.03.2024	Cyber Security - Ethical Hacking	Mr. Ajinkya Lohakare, Ethical Hacker / Cheif Technology Officer, Ditto Security Innovation, Mumbai
Guest Lecture	27.03.2024	Cyber Security Today	Mr. Ajinkya Lohakare, Ethical Hacker / Cheif Technology Officer, Ditto Security Innovation, Mumbai
Guest Lecture	27.03.2024	Software Configuration Management Industry Best Practices Standards and Tools	Mr. Srinivasan Desikan, Managing Director, Qual Player, Bangalore
Guest Lecture	27.03.2024	Recent Trends in Software Engineering in the Industry	Mrs. Meena Murugesan, Finanical Software And System
Guest Lecture	30.03.2024	Machine Learning And its Industry Application	Mr. Arun Kumar K, Director SAP Managed Services, Kyndryl Solution Private Limited, Bangalore
Guest Lecture	30.03.2024	Game of Data Structure : Strategies for Simplicity	Mr. Gurunatha Prasad, Software Development Engineer, Philips Bengaluru

RAMAN RESEARCH AWARDS

MONTH	RESEARCH SCHOLAR NAME	MONTH	RESEARCH SCHOLAR NAME
JANUARY 2024	Mr.D.Sandeep	FEBRUARY 2024	Mr.Kalaivanan K
	Mr.C Senthil Kumar		Ms.Ganji Tejasree
	Mr.Dinesh K		Ms.Adla Padma
	Ms.Aberna P		Mr.Ramesh B
	Mr.Sanal Kumar T S		Mr.Sanal Kumar T S
	Ms.Jyothi P		

Dr. APJ ABDUL KALAM AWARD

Rajkumar Yesuraj – February 2024

The real danger is not that computers will begin to think like men, but that men will begin to think like computers- Sydney J. Harris

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RESEARCH PUBLICATIONS

January 2024 — 24

February 2024 — 24

March 2024 — 30
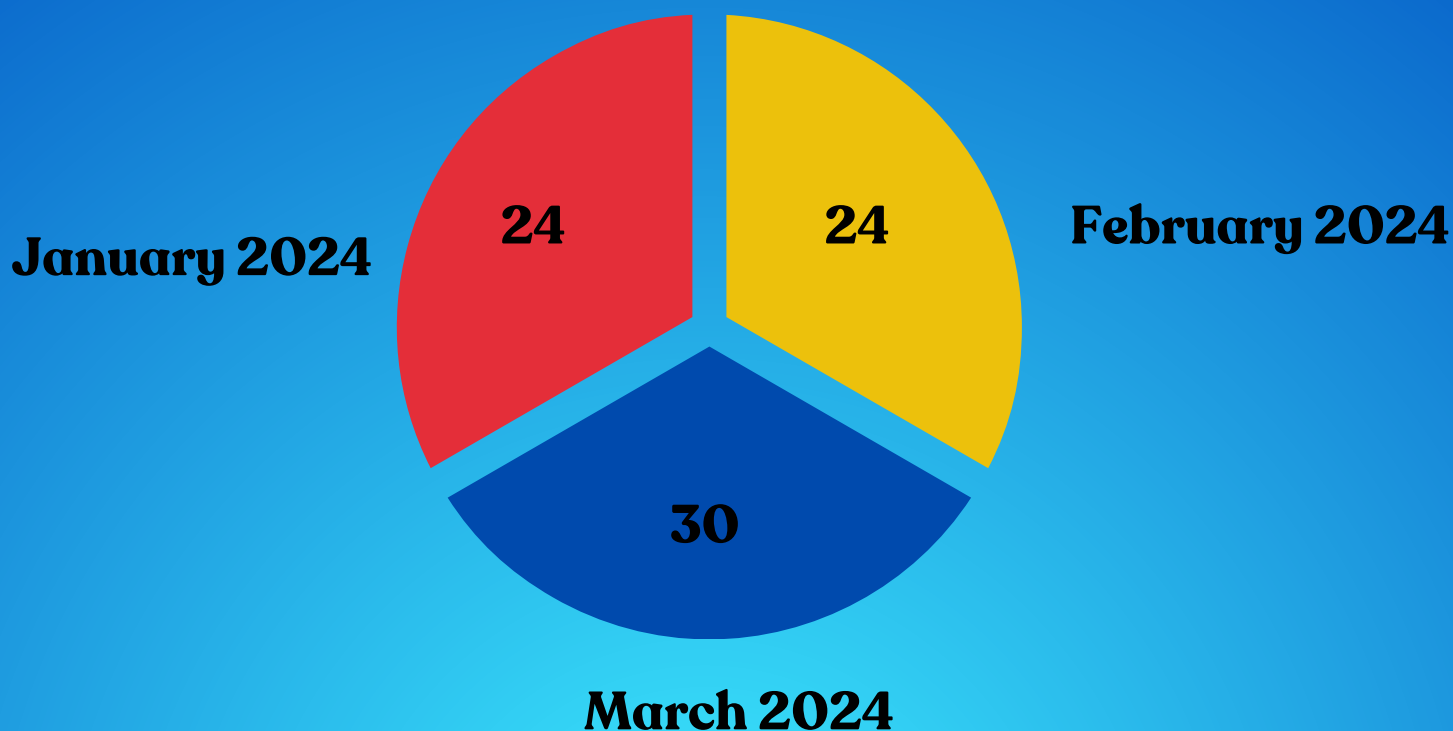
PATENTS

Patentee Name	Patent Titled
Dr. Rahamathunnisa U	MULTI-PURPOSE NON-TOUCH DEVICE FOR AVOIDING A PHYSICAL CONTACT OF A USER WITH A SURFACE
Dr. K Ganesan	ENERGY UTILIZATION SYSTEM AND METHOD FOR A TWO-WHEELER
Dr. K. Uma	HYBRID SUPPORT VECTOR MACHINE (SVM)-RANDOM FOREST (RF) BASED HEART HEALTH TRACKING SYSTEM AND METHOD

"A small group of determined and like - minded people can change the course of history" - Mahatma Gandhi

STUDENT ACHIEVEMENTS

Mr. Mohammed Yusuf K A has secured Fourth place in the hackathon 5.0 organized by ACEi at Aravindh Eye Hospital, Pondicherry from January 5th -7th, 2024.

Mr. Chaitanya Sailesh Goenka has participated in the SAE Aero Design East, Florida, United States from October 3rd - 5th December.

Mr. Jayamaruthi M (21BCS0106) represented Tamil Nadu and won Gold Medal in the Federation Cup Equipped Powerlifting Championship 2023 held at Indore, Madhya Pradesh, from December 27th to 29th, 2023. He will be representing India in the Asian Powerlifting Championship to be held at Hong Kong from May 13 to 18, 2024.

Women Throwball team secured the Runners-Up position in the North Zone State Throwball Championship 2023-2024 held at Chennai from January 18 to 21, 2024.

Gokilavani- 21MIS0012

Ramila R- 21BCS0014

Pooja A- 21MIS0173

Moneka K- 21BCS0003

Nandiha P S- 23BCS0145

"A winner is a dreamer who never gives up" - *Nelson Mandela*

FACULTY ACHIEVEMENTS
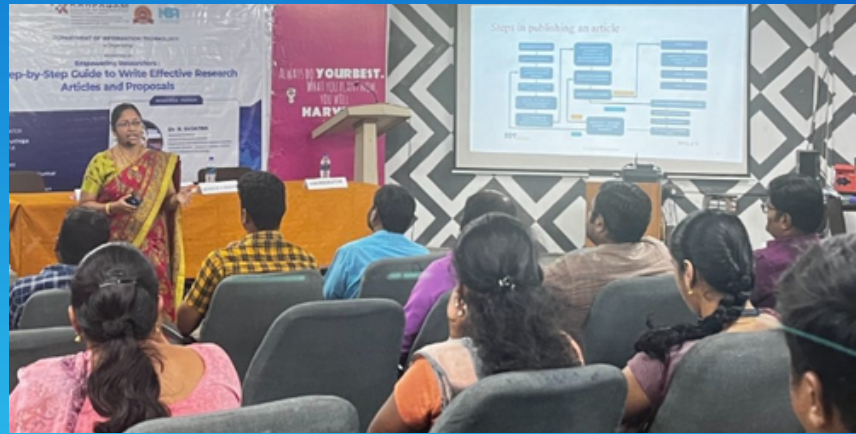
Prof. Sujatha R was invited as a resource person for a workshop entitled Empowering Researchers : A Step-by-Step Guide to Write Effective Research Articles and Proposals by the Department of Information Technology at Karpagam College of Engineering, Coimbatore on March 7th 2024

Prof. Sujatha R was invited as a resource person as a resource person in a Faculty Development Program for Dr. R. V Arts & Science College, Coimbatore
Theme: Chalkboard to Cloud: Empowering Faculty with Tech-Savvy Teaching on Jan 29th & Feb 2nd 2024

Prof. Harshita Patel Received Best Paper Award in the '2nd International Conference on Intelligent Data Communication Technologies and Internet of Things' conducted on 4-6, January 2024, at REVA University in Bengaluru, India
Paper Title: "Driving with Deep Learning: A Robust Traffic Sign Detection and Classification System", Authored by "Harshita Patel, Ishaan Chippa, Devansh Kumar, Vinay Ravindra Maske, Aakanksha Satish Bagal, Dharmendra Singh Rajput" 14

QUALITY WEEK

Event 1:
Quest, Quench and Quality
(For staff members)
Date: March 04, 2024
Event Coordinators:
Dr. Chemmalar Selvi G &
Dr. Santhosh Kumar S V N

Event 2:
Software Quality Aspects
Date: March 06, 2024
Resource Person: Mr. Bhaskar R N, Head - QA & Release , NetObj India

Event 3:
Software Quality Engineering through AI and ML,
Date: March 08, 2024
Resource Person: Mr. Gopalan Muralitharan, Solution Architect & Quality Engineer, Texas Instruments Inc

Event Organizers:
- Dr. Swarna Priya R.M
- Dr. Senthil Kumar N, SCORE, NAAC Coordinators

"Quality means doing it right when no one is looking " - Henry Ford   **15**

Tech News

Apple warns of "privacy and security threats" after EU requires it to allow sideloading

Ukraine's Ministry of Defense claims that pro-Ukrainian hacktivists breached the Russian Center for Space Hydrometeorology, known as "planeta" (планета), and wiped 2 petabytes of data.

Albabat, also known as White Bat, is a financially motivated ransomware variant written in Rust that identifies and encrypts files important to the user and demands a ransom to release them. It first appeared in November 2023 with the variant Version 0.1.0. Version 0.3.0 was released in late December, followed by version 0.3.3 in mid-January 2024.

Lurie Children's Hospital in Chicago is grappling with a network outage that has severely impacted various aspects of its operations, including phones, email, internet service, and medical equipment, all stemming from a significant "cybersecurity matter.

"Man is still the most extraordinary computer of all" - John F Kennedy

ADVISORY TEAM

Dean – Dr. Sumathy S
Associate Dean – Dr. Dhinesh Babu L D
HoD Smart Computing – Dr. Iyapparaja M
HoD Software and Systems Engineering – Dr. Neelu Khare
HoD Information Technology – Dr. Prabhavathy P
HoD Computer Applications – Dr. Vijayan E

EDITORIAL TEAM

PROF. SWETA BHATTACHARYA

PROF. SENTHIL KUMAR T

PROF. MOHANAPRIYA P   PROF. THANGA MARIAPPAN L   PROF. ARUNKUMAR A

Thank you