




Kammavari Sangham (R) 1952

# K.S. GROUP OF INSTITUTIONS

## K. S. INSTITUTE OF TECHNOLOGY

An Autonomous Institution under VTU, Approved by AICTE  
Accredited by **NBA** (CSE & ECE), NAAC with **A+**

**KSIT**  
K.S. INSTITUTE OF TECHNOLOGY

 No.14, Raghuvanahalli, Kanakapura Road,  
Bengaluru - 560109

# PRAGATHI

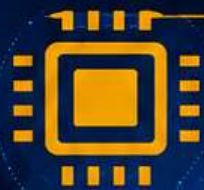
THE OFFICIAL MAGAZINE OF KSIT

ISSUE 2025

DEPARTMENT OF

# COMPUTER AND COMMUNICATION ENGINEERING

Connecting Ideas, Creating Futures



**INNOVATE**  
to inspire  
tomorrow



**CODE**  
with  
purpose



**COLLABORATE**  
for greater  
impact



**CREATE**  
a better  
future

THINK. BUILD. CONNECT. EMPOWER.  
**TOGETHER, WE ENGINEER THE FUTURE.**

**2024**

## ABOUT THE DEPARTMENT :



**Dr. Chanda V. Reddy**  
Prof. & Head

On behalf of the department, I would like to commend our editorial team for their outstanding work in highlighting the talents, achievements, and milestones of our staff and students through the departmental newsletter. KSIT stands as a leading institute offering technical education with strong ethical values. Our CCE department focuses not only on academic excellence but also on the holistic development of our students by incorporating diverse teaching and learning methods. We believe in hands-on activities and experiential learning, providing numerous platforms to stimulate innovative and creative thinking among students. Our dedicated teaching and support staff are committed to helping students excel through a blend of traditional lectures, interactive sessions, and project-based learning. With the guidance of our experienced faculty, we empower a diverse community of students to nurture their abilities, transform their lives, and achieve excellence. We encourage students to engage in both curricular and extracurricular activities, fostering a well-rounded education that prepares them to become future leaders and industry-ready engineers, ready to face the competitive world.

## VISION

- "To be an active part of developments happening in computer and communication engineering, driving interdisciplinary innovation and evolution of communication technology with ethical responsibilities."

## MISSION

- To provide a dynamic and holistic education fostering expertise in hardware, software, and networking to meet the demands of the digital era.
- To promote a comprehensive learning environment that integrates theoretical knowledge with hands-on experience, nurturing students to become proficient engineers.
- To inculcate graduates with high social responsibility, right attitude, discipline and an inclination towards offering their professional expertise with ethics in serving the society

## DEPARTMENT WELCOMES

- MRS. SHILPA.M , ASSISTANT PROFESSOR
- MRS. SARITHA.D , ASSISTANT PROFESSOR
- MRS MANGALA HIREMATH , ASSISTANT PROFESSOR

# LATEST TECHNOLOGY

## **Machine Learning:**

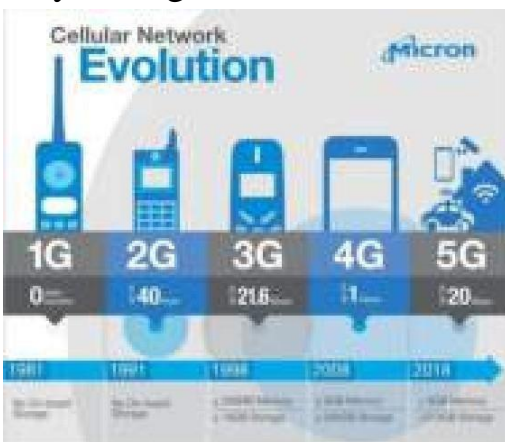
Machine learning enables insights from massive data but is resource-intensive. AutoML automates tasks like data cleansing and parameter selection, reducing technical effort. It allows non-experts to use ML effectively. Key benefits include improved text classification, faster data management, and fraud detection.



Advantages of machine learning are enhanced document and text classification, allowing for better identification of information, improved accuracy and speed of data management, fast fraud detection.

## **5G Network**

5G networks enhance speed, capacity, and reduce latency. 5G standalone (5G SA) eliminates reliance on 4G, offering better coverage, lower latency, and cloud-based architecture. Key benefits include reliable remote control of robotics, widespread secure internet access, and improved inventory management.



**5G Network** allowed for the initial functionality without implementing a whole new infrastructure. Now, with the development of 5G standalone (5G SA) networks, users will have access to greater coverage and will experience lower latency. Utilizing a cloud-based architecture, 5G SA will provide a better user experience and pave the way for technologies such as autonomous vehicle automation and precision robotics.

Advantages of 5G network are reliable remote control of machinery, robotics and other devices secure, controlled and widespread internet access unlimited by geography, more accurate inventory management across all industries.

## **Blockchain Technology**

Blockchain is helping to keep data more secure and creating a reliable history of transactions. The applications extend far beyond that of cryptocurrency. The rise in supply chain issues and the increased digitization of currency is creating new use cases for blockchain.

With its indelible transaction history, blockchain is helping to give real-time insight into the tracking of goods from creation to distribution, relieving some of the bottlenecks that are created in the supply chain. In financial services, blockchain is now being applied to streamline banking and lending in the face of digitization and reducing operational risks with verified history. Advantages of Blockchain Technology are improved supply chain tracking and management, better protection of intellectual property, secure peer-to-peer transactions.



## Augmented and Virtual Reality (AR and VR):

AR overlays digital elements onto the real world, while VR fully immerses users in a simulated environment. AR is used in design, education, healthcare, and retail, while VR is applied in therapy and simulations. Combining AR and VR enhances user experiences.



## EVENTS CONDUCTED

- The Department of CCE organized **TECHNICAL TALK** on “**BEYOND WIRES AND WAVES – INTERNET COMMUNICATION & NETWORKING PROTOCOLS DEMYSTIFIED**” by Mr **AKHIL MOHAN**, Solution Architect at Akamai Technologies on 11.01.2024



- The Department of CCE organized **ONE DAY INDUSTRIAL VISIT** to Place of Visit: **KTPO Convention Centre White field, Bengaluru, India** for **IoT TECH EXPO** on 02.02.2024.



- The Department of CCE organized **WORKSHOP** on “**VERILOG HDL**” by Mr.**PADMANABAN.K** ,Software Enabling & Optimization Engineer , Intel Technologies on 18th and 19th Jan 2024
- The Department of Computer and Communication organized **UTKARSH** on 25th Oct 2024.



- The Department of CCE organized ONE DAY INDUSTRIAL VISIT for 5th Sem to Place of Visit: TATA Advanced System, Electronic City, Bengaluru, India on 28.11.2024.



- The Department of CCE organized WORKSHOP on “PCB Layout Design using ORCAD” by Mr. Rajesh Sudi, Senior Embedded Engineer, TENXER Labs PVT. LTD. On 4th and 5th December 2024.



- The Department of CCE organized ONE DAY WORKSHOP for 3rd Sem on the topic: IBM SKILL BUILD ON INSIGHTS into AI at KSIT, Bengaluru, India on 13.09.2024.
- The Department of CCE organized TWO DAY WORKSHOP for 3rd Sem on the topic: Verilog HDL at KSIT, Bengaluru, India on 19.10.2024 and 20.10.2024.

- The Department of CCE organized ONE DAY INDUSTRIAL VISIT for 3rd Sem to Place of Visit: GTTC, Rajajinagar, Bengaluru, India on 07.10.2024.



### EVENTS ATTENDED BY FACULTY:

- Dr. Chanda V Reddy participated in 5 Day's Online Faculty Development Program on "Academic and Administrative Audit for NAAC Binary Accreditation" held between August 8th to 13th, 2024.
- Mrs. T Naga Jyothi Participated in 10 Hours International Faculty Development Program on Machine Learning and Artificial Intelligence organized by Pimpri Chinchwad College of Engineering and Research, Ravet, Pune – Maharashtra, Sri Venkateswara Degree College, Kadapa - Andhra Pradesh, SJB Institute of Technology, Bangalore – Karnataka and Sri Indu PG College, Hyderabad – Telangana in Collaboration with ExcelR Edtech Pvt. Ltd. from 12th Aug to 19th Aug 2024.
- Mrs. Naga Jyothi T successfully completed course on MATLAB Programming for Beginners at Pantech e Learning Pvt.Ltd. from 8th August 2024 to 7th September 2024.

- Mrs. Shashikala H.C. participated in Five-Days International Level Virtual FDP on Effective Research Writing organised by IVARIN PUBLICATIONS from 23rd-27th September 2024.
- Mrs. D SARITHA participated in Microsoft India & SAP India led Faculty Development Program on "MERN Stack Web development" under Tech Saksham Program from "23rd Sep 2024 - 27th Sep 2024".
- Mrs. D SARITHA participated in One-Day Workshop entitled "The Art of AI Prompting" on 14th December 2024 organized by KSIT in association with KSRIF, Bengaluru.
- Mrs. D SARITHA participated in Faculty Development Program (FDP) on "Data Science and its Application" association with IEEE and Institution's Innovation Council (IIC) organized by Department of Artificial intelligence and Data Science Engineering from 13 to 17 May 2024.

### **ACHIEVEMENTS BY STUDENTS:**

- Mohammed Fahim (USN:1KS22CM030) & Dinesh Sharma (USN:1KS22CM015) & Karthik. Joshi (USN:1KS22CM024) received an appreciation certificate in recognition of outstanding and innovation demonstrated at JITHACK24 hosted by JYOTHI INSTITUTE OF TECHNOLOGY on 7th to 8th JUNE 2024.
- Vishnu Priya .G.S participated in the 68th Junior National Ball Badminton Sports Complex Kankarbagh ,Patna, Bihar on 14/03/2024.

Dinesh Sharma.B Secured first place in discuss throw on Sports Day held at KSIT,Bangalore on 31-5-2024.

- Brinda S and Karthik V Joshi secured first place in Mind Clash conducted as part of Technostva 2K24 organised by Department of Mechanical Engineering, KSIT held on 9th November 2024.
- Shreepada C secured second place in Gaming Bonanza organized by the Department of Electronics and Communication Engineering, KSIT held on 23rd November 2024.
- Brinda S, Nimisha L, Pranathi Sai M,Y Ishitha secured second place in Cerebral Circuit conducted as part of INNOSPARK by the CSE Department on 27th November 2024.

Shreepada C has secured second place in Dodge Arena conducted as part of INNOSPARK by the CSE Department on 27th November 2024.

- Sumedha has Participated in TECHNOTSAV-2024 held on 9th November 2024, organized by Department of Mechanical Engineering.
- Vishnu Priya G.S secured first place in 70th senior women national championship which was held in Karnataka on 26th December to 29th December 2024.
- Sri Lakshmi P Y has successfully participated & won 2nd prize in the 4th Virtual Margazhi Utsav's VARNAM SAGA Solo Bharatanatyam Varnam Competition under the 19-23 age group category, organized by NAALATHE TRUST on January 14th January 2024.

## TOPPER'S LIST

### III SEMESTER

USN	NAME	PERCENTAGE
1KS22CM043	SAKSHI SINGH	90.6
1KS22CM016	DISHA A	89.11
1KS22CM011	BRINDA S	88.7

### IV SEMESTER

USN	NAME	PERCENTAGE
1KS22CM011	BRINDA S	93
1KS22CM016	DISHA A	90.11
1KS22CM043	SAKSHI SINGH	88.56