KSIT
K.S INSTITUTE OF TECHNOLOGY

25 years
1999 - 2024

# CHINTHANA MANTHANA

## IN THIS EDITION

- Happenings at KSIT
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# THINK BEYOND IMAGINATION

**VOLUME XVIII**

**JAN-DEC 2024**

# VISION

- To impart quality technical education with ethical values, employable skills and research to achieve excellence.

# MISSION

- To attract and retain highly qualified, experienced and committed faculty.
- To create relevant infrastructure.
- Network with industry and premier Institutions to encourage emergence of new ideas by providing research and development facilities to strive for academic excellence.
- To inculcate the professional and ethical values among young students with employable skills and knowledge acquired to transform the society.

**Sri. R. Leela Shankar Rao**
**Hon. Secretary**

**Sri. R. Rajagopal Naidu**
**President**

**Sri. T. Neerajakshulu Naidu**
**Treasurer**

On behalf of the management of KS Institute of Technology, we are thrilled to know about the release of the newsletter, the 18th volume of our esteemed college newsletter. This publication stands as a proud reflection of the incredible achievements of our students and faculty across diverse arenas, including academics and sports. We extend our heartfelt congratulations to the editorial team for their dedication and meticulous effort in bringing this volume to life. Your hard work continues to inspire and elevate our institution's reputation. We wish the editorial team and all contributors the very best as we celebrate this milestone together. May this newsletter continue to shine brightly and inspire many more success stories.

# MANAGEMENT COMMITTEE

### Sitting from Left to Right

**Sri.T.Neerajakshulu Naidu** (Treasurer),**Sri.S.Venugopal Naidu** (Joint Secretary),
**Sri .B.Lokanadha Naidu** (Vice President),
**Sri. R.Rajagopal Naidu** (President),**Dr.M.Rukmangada Naidu** (Vice President),
**Sri.R.Leela Shankar Rao** (Hon.Secretary),
**Sri. V. Rajendra Naidu** (Joint Secretary), **Sri.M.Yogamurthy** (Internal Auditor)

### Standing from Left to Right

**Sri. V. Ramesh Kumar** (Director), **Sri. J.M.Chandra Shekar** (Director), **Sri. G.V. Ramesh** (Director), **Sri. T. N.Manjunath** (Chairman, Environment Committee), **Sri. D. Jagadish Kumar** (Chairman,Transport Committee), **Sri. N.Krishnama Naidu** (Chairman, Hostel Committee),**Sri. A.V.Nagaraj** (Chairman,Building Committee), **Sri. N.M.Krishnamurthy** (Chairman,Finance Committee),**Sri. G. Ramana Babu** (Director), **Sri. M. Sudhakar** (Chairman,Legal Cell), **Sri. P.Prabhakar Naidu** (Director)

**Dr. K V A Balaji**
CEO

I am delighted to note that KSIT is bringing out the 18th Volume of its newsletter and the Editorial Team is committed in portraying all the activities held during the last academic year. All of us, who were fortunate enough to survive the pandemic, have not lost our spirit to carry forward the baton and keep doing the various curricular, co-curricular and extra-curricular activities that added a whole lot of values to our students. The new hope that has dawned on us has made it possible to cope up with every dimension of an academic institution. The activities held during the previous academic year is beautifully presented and being showcased in this newsletter.

I wholeheartedly congratulate the entire team of staff and students for all their efforts in keeping the flag of KSIT high and wish them the very best in all their academic endeavors.



**Dr. Dilip Kumar K**
Principal/Director

It is with immense pride and joy that I present to you the 18th volume of our college newsletter. This edition is a testament to the hard work, dedication, and excellence demonstrated by our students and faculty in various fields, including academics and sports. Each achievement featured here is a source of inspiration and a reminder of our collective commitment to excellence. I extend my heartfelt congratulations to all the contributors and achievers. May this newsletter continue to serve as a beacon of motivation and success for our entire community. Wishing you all continued success and many more accomplishments in the future.

# DEPARTMENT OF
# ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

## ABOUT THE DEPARTMENT:

**Dr. Suresh M B**
Prof. & Head

The Artificial Intelligence & Machine Learning (AI & ML) program is one of the fastest-growing fields in technology focusing on knowledge areas such as Artificial Intelligence, Reasoning, Planning, Machine learning, Natural Language Processing, Computer vision and Robotics. It aims to develop critical thinkers and analytical experts for research and industry. With highly qualified and experienced faculty, the department provides quality education, student counseling and organizes guest lectures, seminars, workshops and industrial visits. The Department also encourage the students to participate in Co curricular and extracurricular activities including club and cultural events. Committed to academic excellence, the department equips students with hands-on experience and the skills needed for successful careers.

**Dr. Suresh M B**
**Professor & Head, AIML**

## DEPARTMENT VISION

- **"**To harness students' creativity and self-belief to be successful global professionals with human touch."

## DEPARTMENT MISSION

- Use experiential learning approach to empower students with fundamentals of theory and practice.
- Enable students to solve real life problems both at national and international level.
- To promote entrepreneurship among students so as to be job creators.

## DEPARTMENT WELCOMES:

- Dr. Suresh M B, Professor & Head
- Dr. Sneha Girish, Professor
- Dr. Sahana Salagare, Assistant Professor
- Prof. Kashyap Vijaykumar, Assistant Professor
- Prof. Ushasri Gunti, Associate Professor
- Prof. Sudha M, Assistant Professor

## LATEST TECHNOLOGY:

## CHATGPT-4:

- ChatGPT-4, the latest iteration of OpenAI's Generative Pre-Trained Transformer series represents a major leap in AI capabilities. Released in March 2023, it is smarter, more intuitive, and significantly more powerful than its predecessor GPT-3.5 with memory 10 times faster. GPT-4 can handle longer conversations and maintain better contextual understanding, enhancing its ability to follow complex instructions and deliver coherent responses over extended interactions.



- One of GPT-4's standout features is its multimodal capability. Unlike previous versions, it can process not just text but also visual and audio inputs, enabling more natural and dynamic human-AI interactions. This advancement makes it an ideal tool for creating virtual assistants, smarter user interfaces, and collaborative applications that understand diverse input types.

- GPT-4 is also highly creative and adaptive, capable of generating, editing, and refining content in collaboration with users. It excels at tasks like composing music, writing screenplays, and adapting to individual writing styles, making it a valuable resource for creative and technical work.



- The model's development involved extensive training on public and licensed data, followed by fine-tuning using reinforcement learning from human and AI feedback. This ensures better policy alignment, ethical responsiveness, and improved human-like interaction.

- Overall, GPT-4 is a transformative step forward, offering richer collaboration, advanced reasoning, and multimodal understanding that will drive the future of AI-powered tools and services.

## EVENTS ORGANISED BY AIML DEPARTMENT:

1. On January 2nd, the AIML Department organized a **Project Exhibition on "AI & ML Applications & Developments."** **Dr. Ganga Holi**, Professor and Head (CSE-IoT), was the Internal Expert evaluated the projects by providing valuable insights and feedback to final-year students.

2. On January 11, 2024, the AIML Department hosted a **Technical Talk by Mr. Naman Sinha**, Senior Software Engineer at Fractal Analytics, on "**Minds in Cloud: Exploring Cloud-Based Machine Learning**." He discussed AIML integration with cloud computing for scalability, cost optimization, and innovation, followed by a Q &A session.



3. The Department of AIML conducted a **Technical Talk on "Cyber Security and Its Applications"** on March 12, 2024. The Resource person for the Technical talk was **Mr. Ramkumar V**, Vice President of Rubxie Disruptive Technologies, Bangalore,

4. The AIML Department organized **Industrial visit to the Supercomputer Education and Research Center (SERC) at IISc, Bengaluru**, which was a good exposure and experience for the students to know about latest computational technologies and Super computers.



5, The AIML Department organized **World Intellectual Property Day** on April 30, 2024. **Smt. Praneetha K Rasbag**, Founder of Prasa IP was the resource person. She emphasized the importance of IP rights in protecting AI

innovations and discussed about patenting and copyright importance. She highlighted the need for strong IP frameworks to foster creativity and innovation.



6. On April 30, 2024, the AIML Department organized **a 'Project Expo'** for **final-year students** to showcase the innovative AI and ML projects. Students displayed their projects and discussed the technologies used in their implementation.

7. On June 26, 2024, the AIML Department was organized a **Seminar on Higher Education in abroad** in **Collaboration** with **the Institution's Innovation Council (IIC)** for VI-semester students. **Mr. Vaibhav Gupta and Mr. Naveen Kumar** gave a seminar on university selection, Visa Processing, scholarships, finances, and GRE/TOEFL preparation.

8. On July 4, 2024, the AIML Department organized a **technical talk on "Introduction to Cyber Security",** which covered the key concepts of Cyber attacks, emerging threats, ethical hacking, and preventive measures. Experts shared insights,

9. The Department of AIML organized a Workshop on "**Web Development**" on **July 12, 2024**. The session covered both basic and advanced technologies like HTML, CSS, JavaScript, and modern frameworks. Participants gained hands-on experience in creating responsive web applications under the guidance of industry experts, enhancing their skills and knowledge of best practices and trends in full-stack development.

11. On October 24, 2024, the AIML Department organized a **Technical Talk on "Applications of Google Cloud & Microsoft Certification"** for 5th-semester students. The Resource person was **Ms. Poornima**, Cloud Engineer and Corporate Trainer, the session covered cloud services, real-world applications, and benefits of industry certifications for the future careers..



12. The Department of AIML, in collaboration with **Unify Solutions**, conducted a **Technical Talk on AI Models** on **5th November 2024**. The session explored many AI advancements, with a focus on Computer Vision Technologies. The event resource person was Mr. Shiva Kumar, who highlighted the need for a unified AI platform to integrate diverse capabilities.

15. The AIML Department organized Technical Talk on November 26, 2024, on "**AI tools and practical learning platforms**" with hands-on session. The session enhanced the technical skills and problem-solving methods for real-world applications.

13. The Department of AIML organized an **educational field trip** to Namada Chilume for its third-semester students on 16/11/2024.Namada Chilume, a serene and historic site, offered students an opportunity to learn outside the classroom environment and gain valuable insights into to expose students to the rich history and cultural significance of Namada Chilume.



14. The AIML Department organized an enriching **industrial visit to Microsoft** on November 23, 2024, where students engaged with industry experts, explored innovative AI solutions, and learned about real-world applications, gaining insights into cutting-edge advancements and professional practices in the AI/ML domain.



15. The AIML Department organized seminar on December 28, 2024, on "**Latest AI tools and applications**". The Resource person Was Mr Ankit Tiwari, Product manager. He highlighted on recent AI tools developed with applications.

16. The AIML Department organized **Two Days Hands-on Workshop on Power BI** from November 29 2024 to November 30, 2024, the Resource person was **Mr. Sananda Rao, Corporate Trainer.** The workshop aimed at equipping participants with advanced data visualization and analytics skills.



17. The Department of AIML organized "**Mini Project Expo 2024"** for 5th Sem Students on 10th December 2024. Dr Malini M Patil, Professor & Head, Dept. of CSE, RVITM Blore and **Ms. Poornima M C**, Software Engineer, Eyeris AI, Bangalore was the Guests & External Evaluators for the Project Expo. The students demonstrated and explained the Innovative Projects.



## EVENTS ATTENDED BY FACULTY MEMBERS

- **Ms. Renuka Patil and Ms. Poornima H N** attended a 3-day FDP on "MongoDB - A Project-Based Hands-on Training" from April 16-18, 2024, organized by the Dept of CSE at Sai Vidya Institute of Technology, Bengaluru.

- **Ms. Lakshmi K K** and **Ms. Renuka Patil**, Assistant Professors, AIML Dept. has participated in 5-Days Workshop entitled "Outcome Based Education" organized by the Department of CSE from 03/06/2024 to 07/06/2024 at KSIT Campus.

- **Ms. Sudha M** and **Ms. Roopa K Murthy** Assistant Professors, AIML Dept. has participated in 5-Days Workshop entitled "Outcome Based Education" organized by the Department of CSE from 03/06/2024 to 07/06/2024 at KSIT Campus.

- **Dr. Sahana Salagare,** Assistant Professor attended one day orientation program on 20/09/2024 on the topic "**Impact of Research and Development on Education System**" organized by BGSIT, Bengaluru.

- **Ms. Ushasri Gunti,** Associate Professor has participated in "Training Program on VTU Consortium e-Resource" for library professionals, faculty and research scholars at BGSCET, Bengaluru held on 15/10/2024.

- **Ms. Ushasri Gunti,** Associate Professor attended six-day AICTE training and learning Academy FDP on Advancing Frontiers in supercomputing, AI, and Quantum Computing: Innovation, Applications, and Intergration at GM INSTITUTE OF TECHNOLOGY from 09/12/2024 to 14/12/2024.

- **Ms. Ushasri Gunti,** Associate Professor has participated in One-Day Workshop on "The Art of AI Prompting" on 14/12/2024 organized by KSIT in association with KSRIF, Bengaluru.

# FACULTY ACHIEVEMENTS

- **Dr. Sahana Salagare**, Assistant Professor completed her **Ph.D** successfully on the research title "Design and Development of Renewable Energy System for Law power underwater Devices" under the guidance of **Dr. P.N. Sudha** Prof. and Head, ECE Dept. KSIT and **Dr. Karthik P,** Professor, CIT, Bengaluru on 23-8-2024

# PUBLICATIONS BY FACULTY

- **Dr. Sahana Salagare, Pattipati Naga Sudha, Karthik Palani**," Sustainable Energy Harvesting System for Low Power Underwater Sensing Devices" Indonesian Journal of Electrical Engineering and Computer Science, Scopus Indexed-Q3. Published online July 2024.

# ACHIEVEMENTS BY STUDENTS:

- **Mr. Nithish Gowda K J** emerged as the winner of **NISVAARTH – 2024**, the highly anticipated **KSGI Marathon** organized by the **Department of Electronics & Communication Engineering** at the **K.S. Institute of Technology (KSIT)**. Held on 15th June 2024, the marathon celebrated excellence, perseverance, and community spirit.

- **Mr. Sahu Durgamadhab Sarathkumar** showcased exceptional innovation and problem-solving skills, securing **1st place** in the prestigious **EcoEquify Hackathon**, organized in collaboration with **IBM SkillsBuild and 1M1B**. The event, held on **12th and 13th July 2024** at the **B.N.M. Institute of Technology (BNMIT)**

- **Mr. Hari Krishna** and his team, comprising **Mr. Lochan K, Mr. Sahu Durgamadhab Sarathkumar, and Mr. Karthik**, achieved an impressive milestone by securing 2nd place in Hackquest, a prestigious 24-hour National Level Hackathon. The event took place on **22nd and 23rd July** at the **Dayananda Sagar Academy of Technology and Management (DSATM) Campus**.

- **Mr. Harshavardhan K, Mr. Ramanuja UK, Mr. Shreyas M** emerged as the winner of Promptology organized by Department of IOT at the K.S. Institute of Technology (KSIT).

## 100% RESULT ACHIEVED BY FACULTY (ODD & EVEN SEMESTER)

| V SEMESTER | |
|---|---|
| **SUBJECT** | **STAFF** |
| RESEARCH METHODOLOGY & INTELLECTUAL PROPERTYRIGHTS | Ms. Preetha Kamath |

| VII SEMESTER | |
|---|---|
| **SUBJECT** | **STAFF** |
| ADVANCED ARTIFICIAL INTELLIGENCE (18AI71) | Prof. Roopa K Murthy |
| ADVANCED MACHINE LEARNING (18AI72) | Dr. Amulyashree S |
| BLOCKCHAIN TECHNOLOGIES (18AI733) | Dr. Amulyashree S |
| BUSINESS INTELLIGENCE (18AI744) | Dr. Vijayalakshmi Mekali |
| ENERGY AND ENVIRONMENT (18ME751) | Prof. Prasad K |

| SYSTEM MODELLING AND SIMULATION (18AI821) | Prof. Poornima H N |
|---|---|

## **TOPPERS**

### I & II SEMESTER

| USN | NAME | Percentage |
|---|---|---|
| 1KS23AI019 | KALAI MAHA T | **86.56%** |
| 1KS23AI051 | SHREYAS M | **85.62%** |
| 1KS23AI014 | HARSHAVARDHAN K | **83.12%** |

### III & IV SEMESTER

| USN | NAME | Percentage |
|---|---|---|
| 1KS22AI015 | GANASHREE K N | **94.17%** |
| 1KS22AI034 | RAKSHITHA K | **89.33%** |
| 1KS22AI024 | M VAISHNAVI | **89.00%** |

### V & VI SEMESTER

| USN | NAME | Percentage |
|---|---|---|
| 1KS21AI039 | PUNYA SHREE T S | **89.06%** |
| 1KS21AI029 | MRUDULA S R | **87.81%** |
| 1KS21AI007 | ANUSHREE R | **85.06%** |

### VII & VIII SEMESTER

| USN | NAME | Percentage |
|---|---|---|
| 1KS20AI020 | M. DIVYASHREE | **90.00%** |
| 1KS20AI031 | POORNIMA.M.C | **89.17%** |
| 1KS20AI034 | RUPA RAJASRI PUTHINEEDI | **89%** |

# DEPARTMENT OF COMPUTER SCIENCE & DESIGN ENGINEERING

## ABOUT THE DEPARTMENT :



**Dr. Deepa S R**
Prof. & Head

The Department of Computer Science & Design offers B.E program. The department has well-qualified, knowledgeable, and dedicated faculty to provide qualitative, Industry tuned education to students. The department organizes various events like workshops, technical talks for students to interact with Industry Professionals and hone up their skills. This empowers them to think beyond regular course curriculum and possibly instill in them the concept to start on entrepreneurial journey.

Department staff and students are members of Professional bodies like ISTE, IEI, CSI & IEEE. The department club- Adroit encourages showcasing student's talent in programming, debugging, and teamwork and enhances their skills.

**- Dr Deepa S R**

## VISION

- To prepare skilled and distinct professionals in Computer Science & Design with good research skills backed by ethics for addressing societal needs.

## MISSION

- Instill a commitment to enhance innovative design skills on par with the technological advancements in the IT industry.
- To make efforts to explore the research ideas in hardware and software design.
- To groom the students with the design techniques to cater to the needs of society with professional ethics

## MEMORANDUM OF UNDERSTANDING

The Department signed a Memorandum of Understanding with Rubixe pvt Limited, Bangalore, on 25th Feb 2023 for providing student internship program from faculties/guides, training on Technologies, exposure and work on real time projects. This MOU is valid from 25th Feb 2023 to 31st December 2026.

## DEPARTMENT WELCOMES

- Dr. Surekha Byakod , Associate Professor
- Dr. Chaitra , Associate Professor
- Mrs. Sushma.A , Assistant Professor
- Mrs Sathya Sheela , Assistant Professor
- Mrs Ammu Bhuvana , Assistant Professor
- Miss Roopa K , Assistant Professor
- Mr. Amar Sri , Assistant Professor

# LATEST TECHNOLOGY

## 1.Human-Computer Interaction (HCI) Innovations

- Brain-Computer Interfaces (BCI): BCIs are being explored to give users more direct control over digital interfaces, potentially transforming design processes allowing for hands-free operation.
- Voice and Gesture Control : New HCI paradigms are emerging, with advances in voice recognition (e.g., Google Assistant, Siri) and gesture-based controls (e.g., using Kinect or Leap Motion) enabling more natural interactions in design software and devices.



## 2.Blockchain and Digital Ownership in Design

- NFTs for Digital Art and Design: Blockchain technology has enabled the rise of non-fungible tokens (NFTs), which offer a way to verify digital ownership, revolutionizing the art and design industries by creating secure markets for digital creations.
- Smart Contracts for Design: Blockchain can automate and enforce design agreements, providing a secure, transparent framework for collaboration and copyright protection.



# EVENTS ORGANIZED BY THE DEPARTMENT

1.Department of Computer Science and Design organized technical talk on **"Introduction to Dockers"** by Resource Person Dr. Geetha J Associate Professor in Computer Science Department Organization: Ramaiah Institute of Technology on 19/6/2024.



2.Department of Computer Science and Design organized workshop on "UI-UX" Design on 9/2/2024 from Resource person Vaibhav Pathak And Soumya Kundu, UI and UX Designers of a highly skilled and imaginative Product Designer currently contributing their expertise at Philips in Bengaluru

3.Department of Computer Science and Design organized one day Industrial Visit "U R Rao Satellite Centre" on 13/9/2024 under ADROIT Club



4.Department of Computer Science and Design organized Technical Talk on "Buiding Smarter Systems: The Role of Machine Learning and AI in Engineering" on 13/6/2024 by Mr. Hemanth Kumar, A Senior Data Scientist Organization: Brillio.



5.Department of Computer Science and Design organized "Mini Project Exhibition" on 27/7/2024, reviewed by Mr Gangadhar Immadi, Associate Technical Consultant, NIIT.



6.Department of Computer Science and Design organized one day workshop on "IBM SKILL BUILD ON INSIGHTS into AI" on 12-09-2024 by Mr Shrikant Nivarthi FOUNDER AND CEO from Turnln Learning Solutions Private LTD and Mr. Raghuraj Sing training and software development, A V College, Hyderabad



7.Department of Computer Science and Design and IIIC Industry Institution Interaction cell organized one day workshop on "Design Thinking, Critical Thinking And Innovation Thinking" on 12th Jan 2024. Associating Organization: AANS Technologies, Bengaluru.



8.Department of Computer Science and Design organized one day Industrial Visit for 5th sem students to "Xcel Corp", Bangalore under ADROIT Club on 27/9/2024.

9.Department of Computer Science and Design organized Technical Talk on "Full Stack Development" by Nikita M VP of Web Applications At WishTales AI on Saturday 23rd November 2024 by ADROIT Club.



10.Department of Computer Science and Design organized one day workshop on "Mern Stack" by Resource Person Dr. Geetha J Associate Professor in Computer Science Department Organization: Ramaiah Institute of Technology on 27th Nov 2024



11.Department of Computer Science and Design organized "Code Kala" under Adroit club on 21st Nov 2024



# WORKSHOPS AND FDPs ATTENDED BY FACULTIES

1) Dr. Deepa S.R, Professor & HOD, attended the one-month online Faculty Development Program on Artificial Intelligence organized by Skill Dezire in collaboration with AICTE.

2) Dr. Deepa S.R, Professor & HOD, Attended the MongoDB Academic Summit-2024, on 10th September 2024.

3) Dr. Surekha Byakod , Associate Professor, attended one week Faculty Development Program on Computer Graphics and Image Processing held during 22nd to 27th April 2024 organized by SJB Institute Of Technology, Bangalore.

4) Dr. Surekha Byakod, Associate Professor, attended Three days Faculty Development Program on "Cyber Security" on 1st to 3rd April 2024 organized by Dept of Information Science and Engineering, RVITM ,Bangalore.

5) Mrs Sushma,Assiatant Professor, A attended three days Faculty Development Program on "Full Stack Development on DJANGO" organized by dept of Information science and Engineering JSSATEB Bangalore on 1st to 3rd April 2024.

6) Mrs Sathya Sheela,Assiatant Professor, attended three days Faculty Development Program on Research Methodology from 13th to 15th OCT 2024.Organized by Indaian Institute Of Academic and Research Advancement (IIRA) Ministry Of MSME,Mumbai.

7) Mrs Sathya Sheela,Assiatant Professor, attended one week FDP on "Data Visualisation using TABLEAU" on 1st to 5th April 2024 organized by EXCELR EDTECH Pvt.ltd. by the Dept of Computer Science Of Engineering Mohan Babu University Andra Pradesh .

8) Mrs Sathya Sheela,Assiatant Professor, attended 5 days Faculty Development Program on "Outcome Based Education" Organized by Dept of CSE,K S Institute Of Technology,Bangalore.

9) Mr Wasim Yasin, Assiatant Professor, attended three days Faculty Development Program on "Full Stack Development on DJANGO" organized by dept of Information science and Engineering JSSATEB Bangalore on 1st to 3rd April 2024.

10) Mrs Ammu Bhuvana, Assiatant Professor, attended 5 days Faculty Development Program on "Outcome Based Education" Organized by Dept of CSE, K S Institute Of Technology, Bangalore

# PUBLICATIONS BY FACULTY:

1) **Dr Surekha Byakod , Associate Professor published paper entitled :**

"ENNP: A Logical Strategy to Design an Improved Medical Image Segmentation Process using Elevated Neural Network Principle" Published in: 2024 8th International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC) on 3rd oct 2024. https://ieeexplore.ieee.org/document/10714647
  - DOI:10.1109/I-SMAC61858.2024.10714647

# ACHIEVEMENTS BY FACULTY

1) Dr. Deepa S R , Professor & HOD, recognized for having served as member in the panel of Reviewers for IEEE International Conference for Data Engineering and Communication Systems (ICDECS) Mar 20-23 2024 organized by RNS Institute Of Technology.

2) Dr. Surekha Byakod, Associate Professor, recognized as Reviewer for IEEE International Conference on networks multimedia and information Technology is organized by NITTE Meenakshi Institute Of Technology, Bangalore on 9th and 10th Aug 2024.

3) Mrs Sathya Sheela D, Assistant Professor, filed patent on "Home Automation with multiple control Option based on IOT" date of publication on 17-05-2024, in the filed of invention of journal of emerging Technologies and innovative Research :ID:539410.

# ACHIEVEMENTS BY STUDENTS

1) Varshita S has Participated in Recursive 2024,24 hours national level Hackathon conducted by Dayanand College Of Engineering, Bangalore 4th and 5th July 2024.

2) Kusum Pakira has won Runner up for Tug Of War for the Annual Fest ANANYA 2024.

3) Keertana has participated and has won First prize in Discuss Throw sports held during Annual Athlete meet on 31st may 2024.

4) Varshita Sridhar has participaped in mini project Exhibition - on 27th July 2024 and has awarded as 1st Best project.

5) Ankita D has participaped in mini project Exhibition - on 27th July 2024 and has awarded as 1st Best project.

6) Pavithraa G, Department of CSD, secured Bronze medal in the 62nd National Roller Skating Championship (inline hockey) 2024 - held at Coimbatore from 5th to 15th December 2024

## 100% Results

| Sl No. | Name of the Subject | Subject Code | Faculty name |
|---|---|---|---|
| 1 | Professional Elective Course-I Design Of IOT Design | 21CD641 | Mrs. Ammu Bhuvana |
| 2 | Research Methodology & Intellectual Property Rights | 21RM56 | Dr.Surekha Byakod |

# TOPPER'S LIST 2024

**III YEAR**

| Sl No | USN | NAME | PERCENTAGE |
|---|---|---|---|
| 1 | 1KS21CG004 | ANAGHA SHASTRY | 91.25% |
| 2 | 1KS21CG053 | VAISHNAVI.S | 91.25% |
| 3 | 1KS21CG038 | SATHYA SAI SRI.B.S | 90.87% |

**II YEAR**

| Sl No | USN | NAME | PERCENTAGE |
|---|---|---|---|
| 1 | 1KS22CG051 | SRUSHTI | 92.44% |
| 2 | 1KS23CG400 | PALLAVI K | 91.33% |
| 3 | 1KS22CG043 | SHASHANK M | 90.05% |

# DEPARTMENT OF COMPUTER AND COMMUNICATION ENGINEERING

## 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
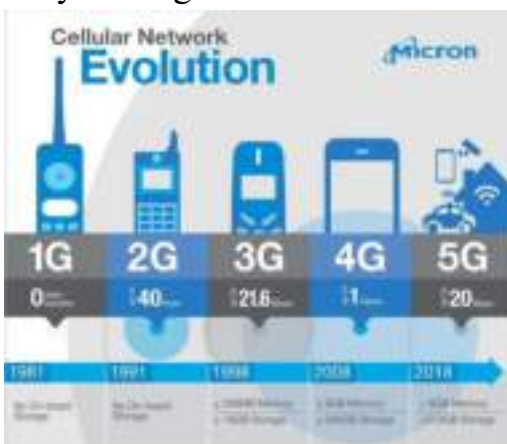
# LATEST TECHNOLOGY

## 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 Architectat 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 |

# DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

## ABOUT THE DEPARTMENT :

**Dr. Rekha B Venkatapur**
Prof. & Head

The department has a team of highly experienced, committed and eminent faculty members. All the faculty members are well qualified and competitive enough in preparing the young minds for global competition with enormous support from the head of the department as well the management. Students of the CSE department are highly motivated and ready for IT Industry with hands-on experience in current technologies/programming languages. The department is accredited by NBA for three years (2024-2027). In VTU results students are getting ranks and are working with reputed companies with higher salary packages. The students are actively participating in Hackathon and other coding contests at the International, National and State level and making their footprints. In the year 2023 Team Pegasus from the CSE department won the Smart India Hackathon competition.

Our mission is to inculcate strong theoretical and practical knowledge for continuous learning and prepare students to find Computer solutions for society through research and entrepreneurship with professional ethics, encourage teamwork in inter-disciplines and evolve as leaders with social concerns. The Department of CSE is striving hard towards the goal of providing innovative and quality education with high standards to achieve academic excellence and provides a platform for the students to achieve their career goals. The students of the department are exposed to industry environment and they have high inclination towards entrepreneurship and research. A large number of alumni are pursuing higher studies/research in India as well as abroad in reputed universities. Staff and students are members of Professional bodies like IEEE, CSI, ISTE, BITES and IEI where the faculty members and students are encouraged to publish research papers in reputed journals, participate in Faculty Development Programs and workshops through a well-supported system. Several patents have been filed by the department faculty. The department preserves its achievements and publish its all activities by Bi-annual magazine 'CS-GYANBYTES' is set to release.

**-Dr. Rekha B Venkatapur**

## VISION

- "To create competent professionals in Computer Science and Engineering with adequate skills to drive the IT industry"

## MISSION

- Impart sound technical knowledge and quest for continuous learning.

- To equip students to furnish Computer Applications for the society through experiential learning and research with professional ethics.

- Encourage team work through inter-disciplinary project and evolve as leaders with social concerns.

# MEMORANDUM OF UNDERSTANDING

- MOU between Rubixe and KSIT was signed on 22nd September 2022 providing Student Internship Programme from Faculties/Guides, Training on technologies, Exposure and work on real time projects with program titled **"Java Developer/ Software Associate/ React Developer"** and this MOU is valid from Sept. 2022 to Sept. 2025

## DEPARTMENT WELCOMES

- Dr. P. Soubhagyalakshmi
- Mrs. Suma Rajesh Ananthakrishna
- Mrs. Roopashree S V
- Mrs. Roopa Deshpande
- Mrs. Sheba Jebakani
- Mrs. Asha Sattigeri
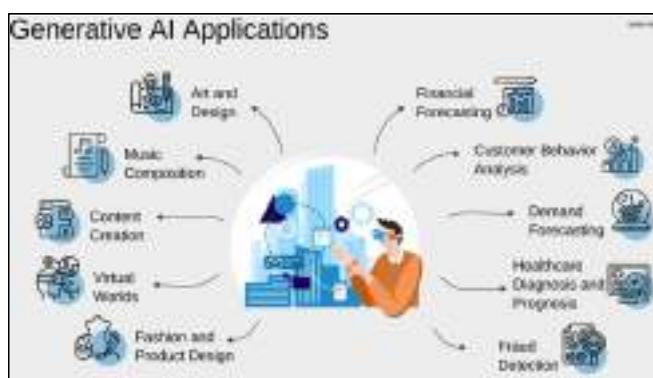- Ms. Maddelabhargavi
- Mrs. Kodur Srividya

## LATEST TECHNOLOGY

### Generative AI

Generative AI refers to a branch of artificial intelligence focused on creating new content that mimics human-like outputs in various forms, such as images, text, audio, and video. It operates by learning patterns and structures from large datasets, enabling machines to generate original content that is often indistinguishable from what humans can produce.

Generative AI models are typically composed of two neural networks:

1. **Generator**: This network tries to create new, realistic data that resembles the training data it was exposed to.

2. **Discriminator**: This network acts as a critic, evaluating the data generated by the generator and determining how realistic or fake it appears.



Generative AI Applications

Generative AI and predictive AI represent two distinct approaches within the broader field of artificial intelligence. Generative AI focuses on creating original and novel content, while predictive AI aims to forecast future outcomes based on historical data patterns. Each approach has its unique applications and use cases, empowering different industries and domains.

By understanding the distinctions between generative AI and predictive AI, organizations and individuals can leverage the strengths of each approach to drive innovation, enhance creativity, and make informed decisions. As AI continues to evolve, the synergistic combination of generative and predictive techniques holds the potential to unlock new opportunities and shape the future of intelligent systems.

## Skills for a Generative AI Career:

- Strong foundation in machine learning, deep learning, and probability (for research and engineering roles).
- Programming skills in Python and familiarity with deep learning frameworks(TensorFlow, PyTorch).
- Understanding of generative AI models (GANs, VAEs) and their capabilities.
- Data analysis and visualization skills can be helpful.
- Creativity, problem-solving abilities, and critical thinking are essential.
- Effective communication and collaboration skills are important for all roles.

## EVENTS CONDUCTED

- The Department of Computer Science and Engineering organized a Workshop on **"Introduction to Experiential Learning using Virtual Labs"** on 02-06-2024 at College, conducted by **Ms. Vismaya M Kumar, Ms. Anusha B Salian, Ms. Akshaya,** Research Fellow, NIT Surathkal, Mangalore, for V Sem Students.

- The Department of Computer Science and Engineering organized an **Industrial Visit** to **IISc Bangalore** – Open Day 2024 on 24-02-2024 at College, for V Sem Students.



- The Department of Computer Science and Engineering organized a Seminar on **"Blockchain and Web3 – Building with Krycore web3.0"** on 19-02-2024 at College, conducted by **Mr. Bharatharaj Babu** and his colleagues, Team Krypcore Technologies, for III & V Sem Students (131 participants).



- The Department of Computer Science and Engineering organized a Mini Project Exhibition on **"DBMS Mini Project Exhibition"** on 18-03-2024 at College, conducted by **Mr. Adi Prasanna C R**, Application Architect, IBM India Pvt Ltd, Bengaluru, for V Sem Students.



- The Department of Computer Science and Engineering organized an Awareness Programme on **"Outcome-Based Education"** on 04-03-2024 at College, conducted by **Mr. Krishna Gudi**, Associate Professor, CSE, KSIT, for II Sem Students (186 participants).



- The Department of Computer Science and Engineering organized a Workshop on **"Unlocking Potential with OBE"** on 18-04-2024 at College, conducted by **Mr. Krishna Gudi**, Associate Professor, CSE, KSIT, for Staff (45 participants).



se during Faculty members engrossed in a presentation on Outcome-Based Educa

- The Department of Computer Science and Engineering organized a **Project Exhibition & Competition** – 2024 on 30-04-2024 at College, with **Mr. Mahantesh Kolhar**, Project Manager, Universal Electronics, **Chandra Sekhar Kambham**, Senior Engineer at Huawei Technologies India, and **Dr. Ramakrishna M**, Professor & Head of Department, CSE at Vemana Institute of Technology, Bangalore, as judges, for VIII Sem Students (129 participants).

- The Department of Computer Science and Engineering organized a Technical Talk on **"Computational Science"** on 24-05-2024 at College, conducted by **Dr. S R Subramanya,** President & CEO, Exskillence, San Diego, USA, for 6th Sem Students.

- The Department of Computer Science and Engineering organized an FDP on **"Outcome-Based Education"** from 27-05-2024 and 3rd - 6th June 2024 at College, conducted by **Dr. S R Subramanya,** President & CEO, Exskillence, San Diego, USA, for Staff (50 participants).



- The Department of Computer Science and Engineering organized an Industrial Visit to **Xcel Corporation** Software Development Centre on 17-05-2024 at College, located at BTM Layout, Bangalore, for VI Sem Students (115 participants).



- The Department of Computer Science and Engineering organized a Seminar on "**Cyber Security by Rubixe - 2024**" on 02-07-2024 at College, conducted by **Mr. Ramkumar V** from **Rubixe** for VI A&B, IV C SEC students.



- The Department of Computer Science and Engineering organized a Guest Lecture on "**Higher Studies in Abroad**" on 11-07-2024 at College, conducted by **Mr. Tiru** from **IDP Education** for VI Sem students.



- **The Department of Computer Science and Engineering** organized a **Project Exhibition and Competition** on 27-07-2024 at College, conducted by **Mr. Sreenivasa S**, Project Manager, Braking Systems at **Bosch India**, for VI Sem students.

- **The Department of Computer Science and Engineering** organized an Industrial Visit to the **Infosys Spring Board Summit** on 23-08-2024, with keynotes from **Nandan Nilekani, Chairman of Infosys, Dr. M C Sudhakar, Pramod Verma, and Ms. Shila Nag.**



- **The Department of Computer Science and Engineering** organized a Workshop on "**IBM Skill Build on Insights into AI**" on 12-09-2024 at College, conducted by **Mr. Srikanth Nivarhi**, CEO & Founder Director of **Turnln Learning Solutions Pvt. Ltd.**, and **Mr. Raghuraj Singh**, for III Sem students.



- The Department of **Computer Science and Engineering** organized the **ICT Honeywell Youth Empowerment Program** from 03-09-2024 to 23-09-2024 at KSIT. Conducted by **Syed Kamaran**, the 20-day **Salesforce Development training** equipped 63 students with skills in Salesforce platform development, including **Apex programming, Lightning Components**, and **integration techniques**, along with certification preparation.



- **The Department of Computer Science and Engineering** organized a Workshop on "**Hands-on Training on Verilog HDL**" on 19th and 20th Oct 2024 at College, conducted by **Mr. Padmanaban K**, Software Enabling & Optimization Engineer at Intel Technologies India Pvt. Ltd., for III Sem students.



- The Department of **Computer Science and Engineering** conducted an **AI Model Training Workshop** on 24-10-2024 at KSIT, led by **Mr. Ravi Prasanna from Unifynow**. The workshop provided 206 students with **hands-on experience in AI and machine learning**, covering key concepts such as **data preparation, model training, and performance evaluation**, along with insights into **real-world applications.**

- **The Department of Computer Science and Engineering** organized a Field Trip to **Namada Chilume, Siddganga Mutt, and Mandaragiri Hills** on 16-11-2024 for III Sem students.



- **The Department of Computer Science and Engineering** organized an Industry Visit to **Xcel Corp**, Bangalore on 23-11-2024 for V Sem students.



- **The Department of Computer Science and Engineering** organized an Industrial Visit to the **Bengaluru Tech Summit** on 21-11-2024 for V Sem students.



- **The Department of Computer Science and Engineering** organized an Industrial Visit to the **Auto EV India 2024 Summit** in Bengaluru on 27-11-2024 for VII Sem students.



## EVENTS ATTENDED BY FACULTY

- **Dr. Rekha B Venkatapur** attended a Workshop on **"Course Design in OBE and NBA Framework"** at **IISc**, Bangalore from 20-05-2024 to 24-05-2024 (5 Days) and also participated in the **MongoDB Academic Summit 2024** hosted by MongoDB, Inc on 10th September 2024 (1 Day).

- **Dr. H S Prasantha** acted as a Member in the **Technical Program Committee** for the **IEEE** Conference on Contemporary Computing and Communication (InC4) at **Christ University**, Bangalore from 15-03-2024 to 16-03-2024 (2 Days).

- **Dr. Kusuma T** attended an FDP on **"Exploring Generative AI"** at **East Point College of Engineering and Technology**, Bengaluru from 22-01-2024 to 26-01-2024 (5 Days).

- **Dr. Sunitha Chalageri** attended an FDP on **"Introduction to Industry 4.0 and Industrial Internet of Things"** by NPTEL from Jan – Apr 2024 (4 Months), an FDP on **"Computer Graphics and Image Processing"** at **SIBIT**, Bangalore from 22-04-2024 to 27-04-2024 (6 Days).

- **Mr. Kumar K** attended a Webinar on **"Advancements in Full Stack Engineering with Power of ChartGPT"** organized by XIMAX Solutions Pvt. Ltd. on 02-02-2024 (1 Day).

- **Mr. Prashanth H S, Mr. Krishna Gudi, Mrs. Kavya M S, Mr. Somasekhar T, Mrs. Pallavi K N, Mr. Laxmikantha K, and Ms. Namyapriya D, Mrs. Swapna S Banasode , Mr. Abhilash L Bhat, Mrs. Shruthi T S, and Mrs. Roopashree S V** attended an **FDP** on **"Outcome Based Education"** at KSIT, Bangalore, from 03-06-2024 to 07-06-2024 (5 Days).

- **Dr. Sunitha Chalageri, Mrs. Rashmi H** attended an FDP on **"Octave Mathematical Software"** at DSCE, Bangalore from 07-06-2024 to 08-06-2024 (2 Days)

- **Mr. Somasekhar T** participated in the **Microchip Academia Program Meet** at Silicon Microsystems on 20-03-2024 (1 Day), and coordinated a Workshop on **"International Student Workshop on Data Science using Python"** organized by Brain O Vision Solutions India Pvt. Ltd. from 19-02-2024 to 23-02-2024 (5 Days).

- **Mrs. Pallavi K N** and **Ms. Namyapriya D** attended an FDP on **"Full Stack Development Using Django"** at JSSATE, Bangalore (01-04-2024 to 03-04-2024),

- **Mr. Laxmikantha K and Ms. Namyapriya D** attended an FDP on **"Full Stack Development"** at **BIT**, Bangalore (29-04-2024 to 03-05-2024).

- **Mrs. Swapna S Banasode** attended a PDP on **"Quantum Computing and Machine Learning with Hands-on"** at **Vardhaman College of Engineering, Hyderabad** from 24-06-2024 to 28-06-2024 (5 Days).

- **Ms. Preethi R and Mrs. Rekha B N and Ms. Keethana M N** attended a Workshop on **"Database Management System"** at SJBIT, Bangalore, from 23-04-2024 to 25-04-2024 (3 Days).

- **Vimala Kumari V, Divya R G ,Suma M S, Ashalatha N S, Lakshmi V, Geetha V, Jyothi, and Saraswathi N, Mr. Babu G** attended an **SDP** on **"Empowerment Through Excellence: Professional Growth for Non-Teaching Staff"** at KSIT, Bangalore, from 27-06-2024 to 29-06-2024 (3 Days).

- **Dr. Sunita Chalageri**, **Mrs. Shruthi T S**, and **Mrs. Ramya R** attended an FDP on **"Recent Research Trends in Computer Science and Information Technology"** organized by SSET, **Sharda University**, Noida, from 23rd to 27th September 2024 (5 Days).

- **Mr. Somasekhar T** participated in a MOOC Workshop on **"Building a Competitive Edge: A Workshop on Employability Skills through MOOCs"** held at VTU, RC, Nagarabhavi, on 10th September 2024 (1 Day).He also attended an FDP on **"VTU Internship Program organized by Rooman Technologies"** at VTU, RC, Nagarabhavi, from 2nd to 5th September 2024 (4 Days).

- **Mrs. Swapna S Banasode** participated in an FDP on **"Industry 5.0 – Security Issues in Generative AI"** at **D Y Patil College** of Engineering, Akurdi, from 19th to 23rd August 2024 (5 Days).

- **Dr. Vijayalaxmi Mekali** and **Dr. Sunita Chalageri** were appointed as External Members for the **BOE** of B.Tech Examinations at **Jain University** on 8th and 9th November 2024, respectively.

- **Dr. Sunita Chalageri, Mr. Kumar K, Mrs. Shruthi T S, Mrs. Ramya R, Mrs. Sheba Jebakani,** and **Mr. Swapna S Banasode** attended the FDP on **"Unlocking the Potential of Data Analytics Using Python"** at BIT, Bangalore, from 19th to 21st November 2024 (3 Days).

- **Ms. Namyapriya D** participated in a Training Programme on **"VTU Consortium e-Resources"** at BGSCET, Bangalore, on 15th October 2024 (1 Day) and the FDP on **"Smart Cities and Mobilities"** at JIT, Bangalore, from 9th to 10th August 2024 (2 Days).She also attended an FDP on **"Academic and Administrative Audit for NAAC Binary Accreditation"** organized by the Institute of Continuous Learning from 8th to 13th August 2024 (5 Days).

- **Mr. Kumar K** participated in the FDP on **"Enhancing Pedagogy through Generative AI"** at MSRIT, Bangalore, from 19th to 23rd August 2024 (5 Days).

- **Ms. Namyapriya D, Ms. Maddelabhargavi, Mrs. Asha Sattigeri, Mrs. Ropashree S V** and **Mrs. Kodur Srividya** attended the FDP on "**Deep Learning and Image Processing**" at RRIT, Bangalore, in association with MEVI Technologies LLP, from 21st to 27th October 2024 (7 Days).

## PUBLICATIONS BY FACULTIES

- Dr. Rekha B Venkatapur published a paper titled "**Motion Estimation using Optical Flow Through A CNN based Pyramidal Warping and Cost Volume Approach: An Optimized PWC-Net Model**" in the Grenze International Journal of Engineering and Technology. The paper has a Grenze ID of 01.GIJET.10.2.737 and is indexed in Scopus.

- Dr. Rekha B Venkatapur also published a paper titled "**Cyber Sentry: A Chatbot Solution for Tackling Cybercrime**" in the Journal of Xidian University, ISSN No: 1001-2400, Volume 18, Issue 4, 2024. The paper's DOI is [10.5281/Zenodo.11047170]

- Dr. Rekha B Venkatapur wrote a paper titled "**Insights into Air Quality and Mixed Gas Analysis: A Machine Learning and Visualization Approach**" in the Journal of Xidian University, ISSN No: 1001-2400, Volume 18, Issue 5, 2024. The paper can be accessed

- Dr. Rekha B Venkatapur published a paper titled "**A Contemporary Survey on Advancements in Adversarial Attacks and Defense Mechanisms in the Field of Machine Learning**" in HTL Journal, ISSN No: 1006-6748. This paper has an impact factor of 2.7 and is a peer-reviewed international journal. The publication appeared in Volume 30, Issue 3, March 2024.

- Dr. Vijayalaxmi Mekali published a paper titled "**NeuroSync: Thoughts to Character Conversion Through Deep Learning Ensemble Model**" in the International Advanced Research Journal in Science, Engineering, and Technology. This paper has an impact factor of 8.066 and is a peer-reviewed and refereed journal. It was published in Volume 11, Issue 4, April 2024.

- Mr. Somasekhar T authored a paper titled "**Insights into Air Quality and Mixed Gas Analysis: A Machine Learning and Visualization Approach**" in the Journal of Xidian University, ISSN No: 1001-2400, Volume 18, Issue 5, 2024.

- Mr. Somasekhar T also published a paper titled "**Predicting Network Security Using Machine Learning**" in the UGC Approved Journal of Xidian University, ISSN No: 1001-2400, Volume 18, Issue 4, 2024.

- Miss. Namyapriya D wrote a paper titled "**Savoring Success: Enhancing Restaurant Recommendations with Videos**" in HTL Journals, ISSN: 1006-6748. The paper has an impact factor of 2.7 and is peer-reviewed. It was published in Volume 30, Issue 4, April 2024

- Mr. Roopesh Kumar B N published a paper titled "**A Contemporary Survey on Advancements in Adversarial Attacks and Defense Mechanisms in the Field of Machine Learning**" in HTL Journal, ISSN No: 1006-6748. This paper has an impact factor of 2.7 and is a peer-reviewed international journal. It was published in Volume 30, Issue 3, March 2024.

- Mr. Roopesh Kumar B N also authored a paper titled "**BlockLottery: A Decentralized Lottery System based on Blockchain Technology**" in HTL Journal, ISSN No: 1006-6748. This paper has an impact factor of 2.7 and was published in Volume 30, Issue 7, 2024.

- Mrs. Kavya MS wrote a paper titled "**Edge Computing: Fundamental Principles, Comprehensive Review and Future Directions**" in HTL Journals, ISSN No: 1006-6748. The paper has an impact factor of 2.7 and was published in Volume 30, Issue 3, March 2024.

- Mr. Roopesh Kumar B N also authored a paper titled "**BlockLottery: A Decentralized Lottery System based on Blockchain Technology**" in HTL Journal, ISSN No: 1006-6748. This paper has an impact factor of 2.7 and was published in Volume 30, Issue 7, 2024.

- Mr. Roopesh Kumar B N published a paper titled "**A Contemporary Survey on Advancements in Adversarial Attacks and Defense Mechanisms in the Field of Machine Learning**" in HTL Journal, ISSN No: 1006-6748. This paper has an impact factor of 2.7 and is a peer-reviewed international journal. It was published in Volume 30, Issue 3, March 2024.

- Mrs. Kavya MS wrote a paper titled "**Edge Computing: Fundamental Principles, Comprehensive Review and Future Directions**" in HTL Journals, ISSN No: 1006-6748. The paper has an impact factor of 2.7 and was published in Volume 30, Issue 3, March 2024.

- Dr. Rekha B Venkatapur presented a paper titled "**Motion Estimation using Optical Flow Through A CNN based Pyramidal Warping and Cost Volume Approach: An Optimized PWC-Net Model**" at the 1st International Conference on Emerging Technologies in Science & Engineering, held at Akshaya Institute of Technology, Lingapura, Tumkur, on 26th and 27th June 2024. This paper won the Best Paper Award and also presented the same paper at the 15th International Conference on ACT 2024 Proceedings, held in June 2024.

- Dr. Rekha B Venkatapur authored a conference paper titled "**A General Comparative Study of Various Video Compression Standards Based on Their Features, Working Mechanism, and Usage Applications,**" published as part of the book series **Lecture Notes in Networks and Systems (LNNS, Volume 993) by Springer**, Singapore, and a research paper titled "**Cyber Sentry: A Chatbot Solution for Tackling Cybercrime,**" published in the Journal of Xidian University, Volume 18, Issue 4, 2024. The conference paper was first published online on 23 August 2024, with a Print ISBN of 978-981-97-4726-9 and an Online ISBN of 978-981-97-4727-6.

## ACHIEVEMENTS BY FACULTY

### SESSION CHAIR/PAPER REVIEWER

- Dr. Rekha B Venkatapur**, Session Chair at IEEE Conference on Contemporary Computing and Communication (InC4)** held at **Christ University,** Bangalore on 15-03-2024 to 16-02-2024.

- Dr. Sunitha Chalageri, **Reviewer of International Conference on Distributed Computing and Optimization Techniques (ICDCOT – 2024)** held at SJBIT, Bangalore on 15-03-2024 to 16-03-2024.

- Dr. H. S. Prasantha served as a Reviewer for **international Conference** on **Distributed Computing and Optimization Techniques (ICDCOT – 2024)** at **SJBIT**, Bangalore (March 15–16, 2024),**2nd International Conference on Integrated Circuits and Communication Systems (ICICACS – 2024)** at **Sir MVCE, Raichur (February 23–25, 2024),IEEE International Conference for Women in Innovation, Technology, and Entrepreneurship (ICWITE – 2024)** organized by **IEEE Women in Engineering Affinity Group, Bangalore Section (February 16–17, 2024).**

- Dr. Rekha B Venkatapur, Session Chair at the International Conference on **Sustainable Computing and Intelligent Systems (SCIS 2024)** held at the University of Canberra, Australia, from 09th to 10th September 2024.

- Dr. Prasantha H S, Reviewer at the 3rd **IEEE CVMI 2024** held at **IIIT Allahabad**, Jhalwa, Prayagraj, UP, from 19th to 20th October 2024.

### BOOK SERIES EDITOR

- Dr. Rekha B Venkatapur authored a book chapter titled **"A General Comparative Study of Various Video Compression Standards Based on Their Features, Working Mechanism and Usage Applications"** in Springer Link under the book series **"Lecture Notes in Networks and Systems (LNNS, Volume 993)"**, published by **Springer, Singapore, First Online on 23-08-2024.**

- Dr. H S Prasantha authored a chapter titled **"Futuristic Trends in Artificial Intelligence"** in **Volume 3, Book 5, 2024,** of the **IIP Series,** published by Selfypage Developers Pvt. Ltd. The E-ISBN for this publication is 978-93-6252-373-0. The publication date is 25-02-2024.

### UGC NET

- The **Computer Science Department** takes immense pride in congratulating **Ms. Roopashree S V** for successfully **clearing the UGC NET** exam in 2024.

### PATENTS BY FACULTY

- **Dr. H S Prasantha** filed patents on "**An Innovative Techniques of Mineral Survey and Evaluation Using Hyperspectral Remote Sensing**" , "**An Approach for Segmenting Hyperspectral Images Using Supervised Classifiers Techniques**" , and "**Performance Analysis of Soft Computing Approaches for Hyperspectral Image Classification**"  at National Level, Published on 02-02-2024, 12-01-2024, and 12-01-2024, respectively.

- **Dr. R. Senkamalavalli** has received two national patents, published on October 27, 2023, and granted on January 12, 2024. The first  is for an **FPGA-based smart assist virtual doctor system** to provide basic medical information. The second  is for a **smart portable safety gas monitoring system for drainage using IoT**. These patents focus on advancements in healthcare and safety technology.

## ACHIEVEMENTS BY STUDENTS

- **National Level Project Competition–2024:** Pradhymna K, Narasimha N, Saahil Dharmaji, Trupthi G B, and Krishna Gudi participated in the event organized by **BIT, Bangalore on 13-04-2024 and secured the 2nd Prize.**

- **National Level Project Competition–2024:** Jonna Dileep, B Jaidev, Chaitra, Jeevan, Kavitha R, Kavya R, and Pallavi K N participated in the event organized by **BIT,** Bangalore on 13-04-2024.

- Our students secured **funding** for their project **"Cyber Aparadha Sambanditha Kaanunu Salahe (CAS-KS)"** under the **47th Series** Student Project Programme by KSCST, receiving a grant of ₹3,000. Led by **Ms. Ganashree K, Ms. Ganashree G. M., and Ms. Dhanya Sharanya Shree R., and guided by Dr. Rekha B. Venkatapur**, this project from the Computer Science and Engineering Department showcases their **innovation in cybersecurity legal advisory solutions.**

- In Industrial Visit to **XCEL Corp** The top 3 performers **Thejus K**, **Anubhav Misra**, and **Akash S R** were awarded internships at XCEL Corp.



Thejus K          Akash S R          Anubhav Misra

- **Mini Project Exhibition & Competition – 2024**: **Gagan Shivanna (1KS21CS030)**, **Karthik H N (1KS21CS046)**, **Arthan M Gowda (1KS21CS015)**, and **Aditya V (1KS21CS008)** participated in the event organized by **KSIT** on 27-07-2024 and secured **2nd Place.**

- **Mini Project Exhibition & Competition – 2024**: **Gopala Krishna V (1KS21CS031)**, **Akshay V B (1KS21CS011)**, **Dhruthi Umesh S (1KS21CS027)**, and **Gaana S (1KS21CS029)** participated in the event organized by **KSIT** on 27-07-2024 and secured **1st Place.**

- **UTKARSH Technical Club: Logeshwaran S (1KS22CS408), Kaushik G V (1KS21CS047), Kiran B S (1KS22CS405), Vanishree (1KS21CS110), Aruna G N (1KS22CS402), and Lakshmeesh M V (1KS22CS406)** participated in the event organized by **DSATM** from 04-07-2024 to 05-07-2024.

- **Tech Tonic 2024: Kavya B Singh (1KS21CS049) and Afifa Aysha Bijli (1KS21CS009)** participated in the event organized by **DSATM** from 12-07-2024 to 17-07-2024.

- **Codekala "Decodex": Jayaditya Dev (1KS23CS059)** participated in the event organized by KSIT, CSD on 21-11-2024 and secured **2nd Place.**
- **Logic Fiesta** as part of **Innospark**: **Jayaditya Dev** (1KS23CS059) participated in the event organized by **KSIT, CSE** on 27-11-2024 and secured **1st Place**.
- **Logic Fiesta** as part of **Innospark**: **Aryaman Tiwari** (1KS23CS020) participated in the event organized by **KSIT, CSE** on 27-11-2024 and secured **1st Place.**
- **Dodge Arena** as part of **Innospark**: **Raghu J** (1KS23CS119) participated in the event organized by **KSIT, CSE** on 27-11-2024 and secured **1st Place**.
- **Throw Ball**: **Keerthan M** (1KS23CS064), **Monika V** (1KS22CS085), **Prajna Gaonkar** (1KS22CS104), **Nagashree A** (1KS21CS064), **Vijayashree A** (1KS22CS185), and **Dhruthi Umesh S** (1KS21CS027) participated in the event organized by **Jnanavikas Institute of Technology** from 12-12-2024 to 13-12-2024 and secured **Runner Up.**
- **National Level Inter Collegiate 24 Hrs Hackathon "AVINYA – 2024"**: **Jayaditya Dev (1KS23CS059)** participated in the event organized by **SJCIT, Chikkaballapur** from 29-11-2024 to 30-11-2024.
- **Capture the Flag National Event: Ruby Kumari R (1KS23CS126)** and **Durga Shree M (1KS23CS043)** participated in the event organized by **DSATM**, Bangalore from 04-12-2024 to 06-12-2024.

## 100% RESULTS

| IV SEMESTER | |
|---|---|
| **SUBJECT** | **STAFF** |
| ANALYSIS & DESIGN OF ALGORITHMS(BCS401) | MR.RAGHAVENDRA CHAR S,DR. SUNITHA CHALAGERI, MR. ABHILASH L BHAT |
| UI/UX(BCS456C) | DR. KUSUMA T, MRS.SHRUTHI T S, MRS. RAMYA R |
| UNIVERSAL HUMAN VALUES COURSE(BUHK408) | MS. NAMYAPRIYA D |
| BIOLOGY FOR ENGINEERS(BBOK407) | DR. SHOBHA G |

| VI SEMESTER | |
|---|---|
| **SUBJECT** | **STAFF** |
| RENEWABLE ENERGY POWER PLANTS(21ME652) | DR. SRINIDHI ACHARYA S R |
| COMPUTER GRAPHICS AND FUNDAMENTALS OF IMAGE PROCESSING( | MRS. ROOPASHREE S V |

| VIII SEMESTER | |
|---|---|
| **SUBJECT** | **STAFF** |
| INTERNET OF THINGS (18CS81) | Mr. ABHILASH L BHAT, Mrs. SUMA RAJESH |
| STORAGE AREA NETWORKS(18CS822) | Dr.REKHA B VENKATAPUR |

| V SEMESTER | |
|---|---|
| **SUBJECT** | **STAFF** |
| COMPUTER NETWORKS(21CS52) | DR. REKHA B VENKATAPUR |
| AUTOMATA THEORY AND COMPILER DESIGN(21CS51) | DR.SUNITA CHALAGERI |

## V SEMESTER

| SUBJECT | STAFF |
|---|---|
| DATABASE MANAGEMENT SYSTEM (21CS53) | MR.SOMASEKHAR T |
| RESEARCH METHODOLOGY & INTELLECTUAL PROPERTY(21RMI56) | LAKSHMIKANTHA |

## III SEMESTER

| SUBJECT | STAFF |
|---|---|
| DIGITAL DESIGN&COMPUTER ORGANIZATION( BCS302) | Mr. ROOPESH KUMAR B N |
| DATASTRUCTURESAND APPLICATION(BCS304) | Mr. ABHILASH L BHAT |

## TOPPERS - 2024

### VIII SEMESTER

| Sl no. | USN | NAME | PERCENTAGE |
|---|---|---|---|
| 1 | 1KS20CS017 | BRUNDA B | 68.00% |
| 2 | 1KS20CS108 | VANDANA N | 67.86% |
| 3 | 1KS20CS023 | DHANYA SHARANYA SHREE R | 67.57% |

### VI SEMESTER

| Sl no. | USN | NAME | PERCENTAGE |
|---|---|---|---|
| 1 | 1KS21CS014 | ARCHANA P | 93.375% |
| 2 | 1KS21CS114 | VIJETHA S | 93.125% |
| 3 | 1KS21CS031 | GOPALA KRISHNA V | 92.75% |

### IV SEMESTER

| Sl no. | USN | NAME | PERCENTAGE |
|---|---|---|---|
| 1 | 1KS22CS067 | LAKSHMI SHREE K P | 90.22% |
| 2 | 1KS22CS169 | THANUSHA S | 89.78% |
| 3 | 1KS22CS161 | SUPRIYA K | 89.67% |

### VII SEMESTER

| Sl no. | USN | NAME | PERCENTAGE |
|---|---|---|---|
| 1 | 1KS20CS041 | JAHNAVI P | 89.86% |
| 2 | 1KS20CS114 | Y JHANSI | 89.43% |
| 3 | 1KS20CS017 | BRUNDA B | 89.43% |

### V SEMESTER

| Sl no. | USN | NAME | PERCENTAGE |
|---|---|---|---|
| 1 | 1KS21CS033 | HARSHITHA K M | 90% |
| 2 | 1KS21CS014 | ARCHANA P | 88.88% |
| 3 | 1KS21CS043 | JASHWANTH P C | 88.75% |

### III SEMESTER

| Sl no. | USN | NAME | PERCENTAGE |
|---|---|---|---|
| 1 | 1KS22CS050 | HEMAMBHIKA B N | 93.78% |
| 2 | 1KS22CS161 | SUPRIYA K | 93% |
| 3 | 1KS22CS169 | THANUSHA S | 92.89% |

# DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

## About the Department:



**Dr. P N Sudha**
Dean-Academics.
Prof. & Head

On behalf of the department, I extend my heartfelt congratulations to our editorial team for their exceptional efforts in curating the departmental newsletter. Their dedication in highlighting the achievements, talents, and milestones of our staff and students is truly commendable.

The ECE department is committed not only to academic excellence but also to the holistic development of students. We organize diverse activities that shape their personalities, enhance their skills, and prepare them for future challenges. Believing in the power of hands-on learning, we create platforms that nurture creativity and innovation among students.

KSIT stands as a pioneer in delivering quality technical education with strong ethical values. Our department is backed by a team of dedicated faculty and support staff who guide students in excelling both academically and creatively. Through innovative teaching methods and experiential learning, we empower a diverse student community to explore their potential, transform their lives, and achieve excellence.

Accredited by NAAC and NBA, we actively encourage students to engage in curricular and extracurricular activities, shaping them into industry-ready professionals and future leaders. As we strongly believe:

"Education is not the learning of facts, but the training of the mind to think." – Albert Einstein

With this vision, we ignite a passion for learning, inspire innovation, and equip our students to excel in an ever-evolving world.

## VISION:

- To achieve excellence in academics and research in Electronics & Communication Engineering to meet societal need.

## MISSION:

- To impart quality technical education with the relevant technologies to produce industry-ready engineers with ethical values.
- To enrich experiential learning through active involvement in professional clubs & societies.
- To promote industry-institute collaborations for research & development.

## MEMORANDUM OF UNDERSTANDING:

- The department signed a Memorandum of Understanding with Entuple Technologies Private Limited on 3rd March 2023 for providing workshops for students and faculties ,FDP, short term training programs (STTP) ,internship program and career builder programs opportunities. The MOU is valid for 2 years.

- The department signed a Memorandum of Understanding with Knowx Innovations Private Limited on 5th December 2023 for providing Internships to UG Students ,conduction of workshops and seminars , placement opportunity for trained students. The MOU is valid for 3 years.

## DEPARTMENT WELCOMES:

- Dr.Bharathi Gururaj Associate Professor
- Mrs. Shubha Kulkarni Assistant Professor
- Mrs.Sapna Patil Assistant Professor
- Mrs.Pragati .P Assistant Professor
- Ms.Preetha Kamath Assistant Professor

## LATEST TECHNOLOGY:

The Internet of things (IoT) describes devices with sensors, processing ability, software and other technologies that connect and exchange data with other devices and systems over the Internet or other communications networks. The Internet of things encompasses electronics, communication and computer science engineering. Internet of things has been considered a misnomer because devices do not need to be connected to the public internet, they only need to be connected to a network and be individually addressable.

The IoT can connect various manufacturing devices equipped with sensing, identification, processing, communication, actuation, and networking capabilities. Network control and management of manufacturing equipment, asset and situation management, or manufacturing process control allow IoT to be used for industrial applications and smart manufacturing. IoT intelligent systems enable rapid manufacturing and optimization of new products and rapid response to product demands.

There are numerous IoT applications in farming such as collecting data on temperature, rainfall, humidity, wind speed, pest infestation, and soil content. This data can be used to automate farming techniques, take informed decisions to improve quality and quantity, minimize risk and waste, and reduce the effort required to manage crops. For example, farmers can now monitor soil temperature and moisture from afar and even apply IoT-acquired data to precision fertilization programs. The overall goal is that data from sensors, coupled with the farmersknowledge and intuition about his or her farm, can
help increase farm productivity, and also help reduce costs



## EVENTS CONDUCTED:

- The Department of Electronics and Communication Engineering organized an "Industiral visit" to ELSIA, Electronic City,Bangalore "on 5th January 2024.



- The Department of Electronics and Communication Engineering organized a Technical Inter College competition "TechVistara" in association with Garut club "on 18th and 19th January 2024.



- The Department of Electronics and Communication Engineering organized a Technical seminar "INNORAPS" in association with KSIT-IEEE SB,ISTE "on 2nd February 2024.



- The Department of Electronics and Communication Engineering organized an "Industrial visit" to U R RAO Satellite Centre, Bangalore "in association with KSIT-IEEE SB,IETE,ISTE,IEI for 5th semester students on 22nd & 23rd February 2024

- The Department of Electronics and Communication Engineering organized an "Industrial visit" to Mahatma Gandhi Institute of Rural Energy & Development (MGIRED) "in association with KSIT-IEEE SB,IETE,ISTE,IEI for 7th semester students on 27th February 2024.



- The Department of Electronics and Communication Engineering organized an event on "Personality Development, Menstrual Hygiene, Mental Health" in association with IEEE-WIE,ASH "for 5th sem Girls on 14th February 2024.



- The Department of Electronics and Communication Engineering organized a Technical seminar "Synthesis of fundamental creativity" by Mr. Guruprasad, ELCIA in association with KSIT-IETE-IEI on 24th Feb 2024.





- The Department of Electronics and Communication Engineering organized mini project exhibition on "CCN Model Exhibition" in association with KSIT-IEEE SB,IETE,ISTE,IEI "for 5th sem on 29th February &1st March 2024.



- The Department of Electronics and Communication Engineering organized an event "Women's Day Celebration 2024" in association with IEEE-WIE for Lady teaching and Non-Teaching Faculties on 14th March 2024.



- The Department of Electronics and Communication Engineering organized " Project Exhibition " in association with KSIT-IEEE SB,IETE,ISTE,IEI "for 8th sem students on 30th April 2024.

- The Department of Electronics and Communication Engineering organized one day "Workshop on "LOGICAL "by Dr S.R. Subramanya, President and CEO of Exskillence in San Diego,california,USA in association with KSIT-IEEE SB,IETE,ISTE,IEI&IIC "for 6th sem studentson 24th MAY 2024.

- The Department of Electronics and Communication Engineering organized 5 DAYS WORKSHOP ON "OUTCOME BASED EDUCATION"by Dr. V Krishnamurty, Prof. and Mentor-Research, Cambridge Institute of Technology, Bengaluru. Mr.Anatharamaih in association with KSIT-IEEE SB,IETE,ISTE,IEI&IIC "for Staffs of AIML,ECE,ME,CSD,CSE on 27th MAY,3-6th JUNE 2024.



- The Department of Electronics and Communication Engineering organized Seminar on "Anti Tobacco Awareness"by Dr. Karthik N Rao, HoD and Consultant, Shankara Cancer Hospital, Bangalore in association with KSIT IEEE SB for 4th sem students on 7th June 2024.



- The Department of Electronics and Communication Engineering organized event "IEEE Valedictory" in association with KSIT IEEE SB for IEEE students and final year students on 8th June 2024.
- The Department of Electronics and Communication Engineering organized event "5K RUN- NISVAARTH" in association with KSIT IEEE SB for KSIT, KSSEM, KSP, KSSA students and faculty on 15th June 2024.



- The Department of Electronics and Communication Engineering organized event "Youth Empowerment Program" in association with ICT Academy and Honeywell students from 3rd September to 23rd September 2024.



- The Department of Electronics and Communication Engineering organized event "Importance of confidence building and goal setting" by Shruthi G K in association with ISTE on 26th October 2024.



- The Department of Electronics and Communication Engineering organized event "PCB design and its application"by Surendra Vickram in association with ISTE on 5th November 2024.

- The Department of Electronics and Communication Engineering organized event "IEEE DAY" in association with IEEE on 4th October 2024.



- The Department of Electronics and Communication Engineering organized robotics workshop "TECH & TAKEOFF" by Gurushankara M,Sanjay P, Shaik Arfath in association with Garut Aerobotics Club on 25th and 26th October 2024.



- The Department of Electronics and Communication Engineering organized event "Hardware Hackathon" in association with IEEE on 22nd November 2024

- The Department of Electronics and Communication Engineering organized event "INOVACEEEA" in association with IEEE on 23rd November 2024.



- The Department of Electronics and Communication Engineering organized event "HACKATHON USING ARDUINO" in association with IEEE on 23rd November 2024.



- The Department of Electronics and Communication Engineering organized event "one day industrial visit to Mahatma Gandhi Institute of Rural Energy & Development (MGIRED)" in association with IETE,IEEE,ISTE,IEI on 15th & 16th July 2024.



- The Department of Electronics and Communication Engineering organized event "one day industrial visit to Mahatma Gandhi Institute of Rural Energy & Development (MGIRED)" in association with IETE,IEEE,ISTE,IEI on 26th September2024.



- The Department of Electronics and Communication Engineering organized event "one day workshop on IBM Skill Build on Insights into AI and Machine Learning" in association with IETE,IEEE,ISTE,IEI on 13th September,2024.



- The Department of Electronics and Communication Engineering organized event "one day workshop on The Art of AI Prompting" in association with IETE,IEEE,ISTE,IEI on 14th December,2024.

# EVENTS ATTENDED BY FACULTY:

- Dr.Rekha N attended 5 days FDP on " Generative AI-Models, Tools& Applications" at CMR Institute of Technology, Bangalore on 29th January to 2nd February 2024.
- Dr. Dinesh Kumar D S attended 5 days FDP on "Future Challenges in 6G" at SIMATS Engineering, Chennai on 4th to 8th March 2024.
- Dr. Dinesh Kumar D S attended 5 days FDP on "Outcome Based Education" at K S Institute of Technology, Bangalore on 3rd to 7th June 2024.
- Mr. Santhosh Kumar B R attended 5 days FDP on "Outcome Based Education" at K S Institute of Technology, Bangalore on 3rd to 7th June 2024.
- Dr.Devika B attended a FDP on " Artificial Intelligence , Machine Learning and Data Science for Engineering Applications" at National Institute of Technology, Warangal on 2nd to 11th May 2024.
- Dr. Electa Alice Jayarani A attended 5 days FDP on "Outcome Based Education" at K S Institute of Technology, Bangalore on 3rd to 7th June 2024.
- Mrs. Ramya K R attended 5 days FDP on "Advancing Power Grid Operations: Integrating Renewable Sources and EV's at scale" at S R University, Telangana on 20th to 24th May 2024.
- Mrs. Ramya K R attended 5 days FDP on "Outcome Based Education" at K S Institute of Technology, Bangalore on 3rd to 7th June 2024.
- Mrs. Vishalini Divakar attended 5 days FDP on "Outcome Based Education" at K S Institute of Technology, Bangalore on 3rd to 7th June 2024.
- Mr. Praveen A attended 5 days FDP on "Outcome Based Education" at K S Institute of Technology, Bangalore on 3rd to 7th June 2024.
- Mr. Christo Jain attended 5 days FDP on "Outcome Based Education" at K S Institute of Technology, Bangalore on 3rd to 7th June 2024.
- Mr. Saleem S Tevaramani attended 5 days FDP on "The Future of Generative AI in Academic Research and Publishing" at Institute of Engineering and Management, Kolkata on 2nd to 6th January 2024.
- Mr. Saleem S Tevaramani attended FDP on "Opportunities and Challenges in Entrepreneurship" at JSSATEB Science and Technology Entrepreneurship Park, Bangalore on 3rd to 19th January 2024.
- Mr. Saleem S Tevaramani attended 6 days FDP on "Artificial Intelligence Beyond Today: Exploring Emerging Trends and Possibilities" at Chandigarh University on 5th to 10th January 2024.
- Mr. Saleem S Tevaramani attended FDP on "IOT, Embedded Systems and AI" at JSSATE, Bangalore on 4thto 29th March 2024.
- Mr. Saleem S Tevaramani attended FDP on "Advancement in Quantum Computing and Sensor Technology for viksit Bharath @2047 at The Oxford College of Engineering Bangalore on 15th April to 27th April 2024.
- Mr. Saleem S Tevaramani attended 5 days FDP on "Recent Trend in Multidisciplinary Research at Viswakarma Institute of Information Technology, Pune on 29th April to 3rd May 2024.
- Mr. Saleem S Tevaramani attended 5 days FDP on "Advancing Power Grid Operations: Integrating Renewable Sources and EV's at scale" at S R University, Telangana on 20th to 24th May 2024.
- Mr. Saleem S Tevaramani attended 5 days FDP on "Outcome Based Education" at K S Institute of Technology, Bangalore on 3rd to 7th June 2024.

- Mr. Sathish Kumar B attended 5 days FDP on "Outcome Based Education" at K S Institute of Technology, Bangalore on 3rd to 7th June 2024.
- Mrs.Bhanumathi A attended 5 days FDP on "Outcome Based Education" at K S Institute of Technology, Bangalore on 3rd to 7th June 2024.
- Mrs. Kavya B M attended 5 days FDP on "Sustainable & Eco-friendly products-commerce Businesses" at JSSATEB Science and Technology Entrepreneurship Park, Bangalore on 7th to 24th February 2024.
- Mrs. Kavya B M attended FDP on "Advancement in Quantum Computing and Sensor Technology for viksit Bharath @2047 at The Oxford College of Engineering Bangalore on 15th April to 27th April 2024.
- Mrs. Kavya B M attended 5 days FDP on "Outcome Based Education" at K S Institute of Technology, Bangalore on 3rd to 7th June 2024.
- Dr. Anita P attended 5 days FDP on "Frontiers of Photonic Integrated Circuits and Sensing Technologies" at The Oxford College of Engineering Bangalore on , 1st to 4th April 2024.
- Dr. Anita P attended FDP on "Advancement in Quantum Computing and Sensor Technology for viksit Bharath @2047 at The Oxford College of Engineering Bangalore on 15th April to 27th April 2024.
- Dr. Anita P attended 5 days FDP on "Advancing Power Grid Operations: Integrating Renewable Sources and EV's at scale" at S R University, Telangana on 20th to 24th May 2024.
- Mrs. Suma Santhosh attended 5 days FDP on "Advancing Power Grid Operations: Integrating Renewable Sources and EV's at scale" at S R University, Telangana on 20th to 24th May 2024
- Mrs. Suma Santhosh attended 5 days FDP on "Outcome Based Education" at K S Institute of Technology, Bangalore on 3rd to 7th June 2024.
- Mr. Naveen Kumar S attended 5 days FDP on "Outcome Based Education" at K S Institute of Technology, Bangalore on 3rd to 7th June 2024.
- Mrs. Priyadharshini V attended 5 days FDP on "Advancing Power Grid Operations: Integrating Renewable Sources and EV's at scale" at S R University, Telangana on 20th to 24th May 2024
- Mrs. Priyadharshini V attended 5 days FDP on "Outcome Based Education" at K S Institute of Technology, Bangalore on 3rd to 7th June 2024.
- Mr.Sathish Kumar B attended FDP on "5G and Beyond 5G:Platforms and Applications of Terrestrial and Non-Terrestrial Networks(NTNs)" at NITTE Meenakshi Institute of Technology from 29th July 2024 to 2nd August 2024.
- Dr. Anita P attended FDP on "Stress Management" at NPTEL from Aug-Sep 2024.
- Mrs.Suma Santosh attended FDP on "Stress Management" at NPTEL from Aug-Sep 2024.
- Mrs.Priyadharshini V attended FDP on "Stress Management" at NPTEL from Aug-Sep 2024.

## PUBLICATIONS IN INTERNATIONAL JOURNALS:

- Dr. Anita P "Design And Validation Of A 32-Bit RISC-V Processor Incorporating Vedic Mathematics" Educational Administration: Theory and Practice 2024, Vol.30, No.5, pp.12904-12909, May 2024

- Dr. Electa Alice Jayarani "Machine Learning and Deep Learning Analysis of Vehicle Carbon Footprint" International Journal of Environmental Impacts, Vol. 7, No. 2, pp. 287-292, June 2024 .

## ACHIEVEMENTS BY FACULTY:

- Dr.P.N. Sudha, Professor, HOD-ECE Academic Expert Member in Academic Expert Member of Board of Studies-ECE at Sir M V Institute of Technology on 16th March 2024.
- Dr. Sangappa S B, Professor, attended 52nd National Annual Convention(ISTE)at Kalburgi on 12th & 13th February 2024.
- Dr. Sangappa S B, Professor ,IQAC Annual meet of Dayananda Sagar College of Engineering at Dayananda Sagar College of Engineering on 7th March 2024.
- Dr. Sangappa S B, Professor as an Evaluator for Ph.D.Thesis on An Analysis and Designing of Dual Band phase Array Antenna for bandwidth Enhancement of 5G Applications with Improved Radiation Characteristics in Electronics & Communication Engineering at Rabindranath tagore University on 12th March 2024.
- Dr. Sangappa S B, Professor, Technical Teachers Meet Orientation Program at Bengaluru on 24th Sunday 2024.
- Dr. Dinesh Kumar D S, Associate Professor as a Session Chair in Next Generation Intelligence in Electronics and communication Engineering at East Point college of Engineering on 9th May 2024.
- Dr. Dinesh Kumar D S, Associate Professor as a Reviewer in 2nd IEEE International Conference on Data science and Information system at Malnad College of Engineering from 17th to 18th May 2024.
- Dr. Dinesh Kumar D S, Associate Professor as a Doctoral Committee at Cambridge Institute of Technology on 19th June 2024.
- Dr. Electa Alice Jayarani, Associate Professor as a Reviewer in EURASIP Journal on audio, speech and music proceeding on 07 March 2024.
- Mr. Saleem S Tevaramani, Assistant Professor as a Reviewer in International Conference on Distributed Computing and Optimization Techniques (ICDCOT - 2024) at SJB institute of Technology on 15th &16th March 2024.
- Mr. Saleem S Tevaramani, Assistant Professor as a Reviewer in 2nd International Conference on Integrated Circuits and Communication Systems (ICICACS - 2024) at Sir MVisvesvaraya college of Engineering,Raichur on 23rd & 24th Feb 2024.
- Mr. Saleem S Tevaramani, Assistant Professor as a Reviewer in Emerging Research in Computing, Information, Communication, Artificial Intelligence & Machine Learning at NM Institute of Technology,Bengaluru on 23rd & 24th Feb 2024.
- Mr. Saleem S Tevaramani, Assistant Professor as a Reviewer in 3rd IEEE International Conference on Distributed computing at Ballari Institute of Technology and Management on 26th&27th April 2024.
- Mr. Saleem S Tevaramani, Assistant Professor as a Reviewer in 3rd IEEE International Conference on AI for IOT at Vellore Institute of Technology and Management on 3rd &4th May 2024.
- Mr. Saleem S Tevaramani, Assistant Professor as a Reviewer in 2nd IEEE International Conference on Data Science and Information system at MAlnad college of Engineering on 17th &18th May 2024.

# CONGRATULATIONS

- Dr. Anita P has been awarded Doctor of Philosophy from Visvesvaraya Technological University , Belagavi , Karnataka , India, March 2024 for the Thesis " Novel FrameWork for Packet Classification with Superior Network and Computational Performance" carried out under the supervision of Dr. Manju Devi , Professor and Head , Department of Electronics and Communication Engineering, Oxford college of Engineering Bengaluru.

- Dr. Saleem S Tevaramani has been awarded Doctor of Philosophy from Visvesvaraya Technological University , Belagavi , Karnataka , India, June 2024 for the Thesis " Performance Analysis for Secured Communication using Steganography Techniques" carried out under the supervision of Dr. Ravi J , Professor ,Department of Electronics and Communication Engineering , Global Academy of Technology , Bengaluru.

## ACHIEVEMENTS BY STUDENTS:

- Adithya S participated in Mini Project Exhibition at KSIT on 26th February 2024 and won First Place.
- Prajwal P participated in Mini Project Exhibition at KSIT on 26th February 2024 and won First Place.
- Archana S.K participated inMini Project Exhibition at KSITon 26th February 2024 and won First Place.
- Ashwini P participated in Mini Project Exhibition at KSIT on 26th February 2024 and won First Place.
- Ankita P participated in Mini Project Exhibition at KSIT on 26th February 2024 and won First Place.
- Amrutha P participated in Mini Project Exhibition at KSIT on 26th February 2024 and won First Place.
- Raghu H M participated in Mini Project Exhibition at KSIT on 26th February 2024 and won second Place.

- Srujan Karanth N participated in Mini Project Exhibition at KSIT on 26th February 2024 and won second Place.
- Vardhan Gowda K N participated in Mini Project Exhibition at KSIT on 26th February 2024 and won second Place.
- V Likith participated in The Gentleman Burglar at Christ University from 12th February 2024 to 13th February 2024 and won Second Place.
- Anagha Prakash participated in The Gentleman Burglar at Christ University from 12thFebruary 2024 to 13th February 2024 and won Second Place.
- Gurushankara M participated in The Gentleman Burglar at Christ University from 12thFebruary 2024 to 13th February 2024 and won Second Place.
- Archana N participated in The Gentleman Burglar at Christ University from 12th February 2024to 13th February 2024 and won Second Place.

## FUNDED PROJECTS:

- Mr. Praveen, Assistant Professor received a fund of Rs.5500/- for the project entitled "Bionic Arm" by Karnataka State Council for Science and Technology KSCST SSP-46Series during April 2024.
- Mr. Santosh Kumar B R Associate Professor received a fund of Rs.4000/- for the project entitled "Accident Prevention System for Railways" by Karnataka State Council for Science and Technology KSCST SSP-46 Series during April 2024.
- Dr. P N Sudha Professor received a fund of Rs.5000/- for the project entitled "Smart Real Time Drainage Monitoring System" by Karnataka State Council for Science and Technology KSCST SSP-46 Series during April 2024.
- Dr. Dinesh Kumar D S Associate Professor received a fund of Rs.5500/- for the project entitled "Smart Wireless Emergency Pendant" by Karnataka State Council for Science and Technology KSCST SSP-46 Series during April 2024.

## 100% RESULT:

| SUBJECT CODE | SUBJECT | STAFF NAME |
|---|---|---|
| BSCK307 | Social Connect and Responsibility | Dr. Sangappa S B |
| 18EC71 | Computer Networks | Dr.Dinesh Kumar D S |
| 18EC823 | Radar Engineering | Dr.Dinesh Kumar D S |
| BEC405A | Microcontroller | Mr. B R Santhosh Kumar |
| BESCK104B | Introduction to Electrical Engineering | Mrs. Ramya K R |
| 18ME751 | Energy and Environment | Mrs.Vishalini Divakar |
| 21EC53 | Computer Communication Networks | Mrs.Sangeetha V |
| 18EC732 | Satellite communication | Dr.Saleem S Tevaramani |
| 18EC823 | Radar Engineering | Dr.Saleem S Tevaramani |
| 18EC72 | VLSI Design | Mr.Praveen A |
| BEC405A | Microcontroller | Mr.Naveen Kumar S |

## TOPPERS LIST 2023-24:

| III SEMESTER | | |
|---|---|---|
| USN | NAME | PERCENTAGE |
| 1KS22EC067 | MONISHA B N | 88.44 |
| 1KS20CS074 | Poojitha Y | 85.22 |
| 1KS22EC061 | MANASA CHOWDARY | 85.11 |

| V SEMESTER | | |
|---|---|---|
| USN | NAME | PERCENTAGE |
| 1KS21EC117 | VIDYASHREE R | 89.00 |
| 1KS21EC097 | SRIPRIYA H G | 86.63 |
| 1KS21EC077 | RITHIKA M | 84.88 |

| VII SEMESTER | | |
| --- | --- | --- |
| USN | NAME | PERCENTAGE |
| 1KS20EC068 | PREMA G | 91.25 |
| 1KS20EC057 | MEGHA SHREE M | 91.00 |
| 1KS20EC002 | ADITI DUBEY | 89.63 |

| VIII SEMESTER | | |
| --- | --- | --- |
| USN | NAME | PERCENTAGE |
| 1KS20EC068 | PREMA G | 95.2 |
| 1KS20EC057 | MEGHA SHREE M | 93.4 |
| 1KS20EC002 | ADITI DUBEY | 92.6 |

| IV SEMESTER | | |
| --- | --- | --- |
| USN | NAME | PERCENTAGE |
| 1KS22EC002 | ADEEBA ISMATH | 89.89 |
| 1KS22EC049 | KEERTHANA K | 87.78 |
| 1KS22EC067 | MONISHA B N | 86.33 |

| VI SEMESTER | | |
| --- | --- | --- |
| USN | NAME | PERCENTAGE |
| 1KS21EC097 | SRIPRIYA H G | 92.25 |
| 1KS21EC117 | VIDYASHREE R | 89.375 |
| 1KS21EC040 | KUSUMA M S | 87.875 |

# THE DEPARTMENT OF MECHANICAL ENGINEERING

## ABOUT THE DEPARTMENT :

**DR GIRISH T R**
**Prof. & Head**

The Department of Mechanical Engineering is one among the longevous branches in our institution with many prides to its feather.  Excellent faculty members and a good student community has contributed to make the Department vibrant and striving hard to achieve excellence in their area of academics and research. In keeping with continued efforts for upgradation and advancement of knowledge, the Department has successfully completed the establishment of various labs as per the University requirements and care has been taken to procure specialized equipment to inculcate an aptitude for research . The faculty and students are actively involved in the Research and Development and have many International journal publications to their credit. The Department is recognized as a Research center from VTU and 13 research scholars are carrying out their research in the various fields of Mechanical Engineering. The Department has it's own departmental library. The Department has taken the leading role in the IPR activities, IEDC activities, NSS, sports and cultural activities of the institution.

## VISION
- To groom incumbents to compete with their professional peers in Mechanical Engineering that brings recognition.

## MISSION
- To impart sound Fundamentals in Mechanical Engineering
- To Expose Students to New Frontiers.
- To achieve Engineering Excellence through Experiential learning and Team work.

## DEPARTMENT WELCOMES
- Dr. Swamy , KSIRF

## EVENTS CONDUCTED BY DEPARTMENT

- Industrial Visit to Toyota Kirloskar Auto Parts, Bengaluru on 28th Feb 2024.



- Final Year Project Work Exhibition for Final year students on 30th April 2024.



- Mega ATV Challenge on 8th to 13th May, 2024 (Night Endurance Race: RUNNER UP, Flat Dirt Race: RUNNER UP, Drag Race: 2nd RUNNER UP.)



- Industry Driven Faculty Development Programme on "BEST PRACTICES IN INDUSTRIAL SAFETY" form 13th to 17th May, 2024.



- Industrial Visit to ACE Designers, Bengaluru on 23rd November 2024.



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# EVENTS ATTENDED BY FACULTY

- Mr. Anil Kumar A, Assistant Professor, attended FDP on "Current Technology Developments in Additive Manufacturing" Organized by SJBIT, Bangalore, from 8th -12th Jan 2024.
- Mr. Manjunath B R, Assistant Professor, attended FDP on "Current Technology Developments in Additive Manufacturing" Organized by SJBIT, Bangalore, from 8th -12th Jan 2024.
- Mr. Ranganath N, Assistant Professor, attended one day seminar on "Industrial Safety", Organized by Department of Mechanical Engineering in association with K S Research & Innovation Foundation, Bengalore on 23rd January 2024.
- Mr. Anil Kumar A, Assistant Professor, attended one day seminar on "Industrial Safety", Organized by Department of Mechanical Engineering in association with K S Research & Innovation Foundation, Bengalore on 23rd January 2024.

# PUBLICATIONS BY FACULTY

- Subramanyam, S. P., Kotikula, Dilip Kumar Kotikula., et.al. (2024). Emission characteristics of diesel engines fuelled with B20 with different DPF, DOC and EGR arrangements. International Journal of Ambient Energy, 45(1), 2277308.
- Anilkumar, A., Rammohan, Y. S., & Suresh, B. S. (2024). Impact of Boundary Conditions and Radius of Curvature on Vibro-Acoustic Behavior of Cold-Rolled Carbon Steel Structure. Journal of Vibration Engineering & Technologies, 1-15.
- Anilkumar, A., Rammohan YS., et.al. (2024). Optimization of Vibro-Acoustic Characteristics of Cold Rolled Sandwich Steel Cylindrical Shell with Internal Voids Using Response Surface Methodology. Journal of Vibration Engineering & Technologies, 1-17.
- Harish, U., Mruthunjaya, M., et.al. (2024). Modelling and performance evaluation of cermet-based erosion-resistant coatings on gas turbine blades using CFD approach. International Journal on Interactive Design and Manufacturing (IJIDeM), 1-16.
- Nayak, H., Kollur, S., Prasad, K., Erannagari, S., Prasad, C. D., & Nagabhushana, N. (2024). Development of equal proportional YSZ+ Al2O3 thermal barrier coating and effect of coating thickness on the corrosion behaviour on cast iron substrate. High Temperature Corrosion of Materials, 101(2), 291-308.
- Kumar, S. R., Prathiba, M. K., Yogaraj, D., Suryanarayana, N. K., Venkatesh, M. K., Bhaskar, Nagaprasad, K. S., ... & Kiran, R. (2024). Transmutation of Conventional Fuel Based Two wheeler Vehicles into Electric Vehicles. Journal of Mines, Metals and Fuels, 1179-1185.
- Nagaprasad, K. S., Banapurmath, N. R., Madhu, D., Soudagar, M. E. M., Mujtaba, M. A., Kalam, M. A., Krishnappa, S. (2023). Emission characteristics of diesel engines fuelled with B20 with different DPF, DOC and EGR arrangements. International Journal of Ambient Energy, 45(1). https://doi.org/10.1080/01430750.2023.2277308

# ACHIEVEMENTS BY FACULTY

- Two research scholars successfully completed their Ph.D under the Guidance of Dr. Dilip Kumar K, Principal, KSIT.
- Dr. Girish T R completed his M.Tech degree in "Artificial Intelligence and Machine Learning" from Birtla Institute of Technology & Science, Pilani. India.
- Mr. Ranganath N completed his M.Tech degree in "Artificial Intelligence and Machine Learning" from Birtla Institute of Technology & Science, Pilani. India.
- Dr. Nagaprasad, K. S has been appointed as member, board of examiners (BOE) for Mechanical stream in VTU for the academic year 2024-25. Letter refence number VTU.Exam/BOE/2024-25,Dated:09/11/2024.
- Mr. Harish U has successfully completed one week Industrial internship program in ACE Multi Axes Systems Ltd, Bengalore from 03/06/2024 to 08/06/2024.

## ACHIEVEMENTS BY STUDENT

- Kushal Kadam of the 7th Semester, Department of Mechanical Engineering Represented the college at the VTU State Level Athletic Meet held at Belagavi during the academic year 2022-23.



## FUNDED PROJECTS

- Project entitled "Design and Fabrication of Adaptive Driving Attachment to an existing Four Wheeler vehicle to Help differently able person" by Mr. SHREYAS S. K. and Mr. HARYANK V. KASHYAP under the guidance of Dr. Nirmala L Associate Professor, Department of Mechanical Engineering, KSIT has been has been approved by the Council under "Student Project Programme- 47th Series (KSCST)"and sanctioned an amount of Rs.7000/-.

## BEST PROJECT:

- Mr. Haryank V Kashyap and Mr. Shreyas S K have participated in the Project exhibition – 2024 and selected as "Best Project" from the judges (Dr. Shankara Naik, Associate Professor, Mechanical Department, K R Pet Krishna Government Engineering College, KR Pete.) for their project title "Design and fabrication of joy stick control system" under the guidance of Dr. Nirmala L, Associate Professor, organized by Department of Mechanical Engineering, at KSIT, Bengaluru on 26th April 2024.

# EVENTS ATTENDED BY PROFESSIONAL BODIES

- The Team Redline Racing consisting of 22 students who design & fabricate an e-ATV participated in "MEGA ATV CHAMPIONSHP 2024" organized by Autosport India in association with FMSCI, Querim Beach, Goa, from 1st July to 4th July 2024.

The team won THREE tropies viz:

- Night Endurance Race: 2nd RUNNER UP,
- Flat Dirt Race: RUNNER UP,
- Drag Race: 2nd RUNNER UP.

## 100% RESULTS

| Sl No | Name | Semester & Section | Course Name |
|---|---|---|---|
| 1 | Dr. Umashankar | I F,G & II B | Computer –Aided Engineering Drawing |
| 2 | Mr. Prasad K | I G & II E | Computer –Aided Engineering Drawing |
| 3 | | VII -AIML | Energy and Environment |
| 4 | Mr. Manjunath B R | I H & II D | Computer –Aided Engineering Drawing |
| 5 | | VII | Additive Manufacturing |
| 6 | Mr. Anil Kumar A | I I | Computer –Aided Engineering Drawing |
| 7 | Dr. L Nirmala | II H | Renewable Energy sources |
| 8 | | IV | Non Traditional Machining |
| 9 | Dr. Girish T R | V | Research Methodology &Intellectual Property Rights |
| 10 | Dr. Saleem Khan | V | Modern Mobility and Automotive Mechanics |
| 11 | Mr. Harish U | III | Manufacturing process |
| 12 | | VII B CSE | Energy and Environment |
| 13 | Dr. Nagaprasad K S | II -C | Computer –Aided Engineering Drawing |
| 14 | | VII A-CSE | Energy and Environment |
| 15 | Dr. Srinidhi Acharya S R | VI CSE | Renewable Energy Power Plants |

# TOPPERS LIST

| Sl. No. | SEM | USN | Name | AVERAGE % |
|---|---|---|---|---|
| 1 | | 1KS22ME003 | GANDHI KRISH PIYUSHKUMAR | 91.39% |
| 2 | III/IV | 1KS22ME009 | THARUN S | 85.50% |
| 3 | | 1KS22ME004 | NITHIN KUMAR M M | 84.72% |

| Sl. No. | SEM | USN | Name | AVERAGE % |
|---|---|---|---|---|
| 1 | | 1KS22ME400 | DEEPAK K | 86.94% |
| 2 | | 1KS21ME010 | RAJESH KUMAR N G | 86.94% |
| 3 | V/VI | 1KS22ME401 | DINAKAR D M | 82.44% |
| 4 | | 1KS21ME006 | N EKANTH | 82.44% |
| 5 | | 1KS22ME403 | SRINIDHI S B | 82.00% |

| Sl. No. | SEM | USN | Name | AVERAGE % |
|---|---|---|---|---|
| 1 | | 1KS20ME003 | HARYANK V KASHYAP | 86.46% |
| 2 | VII/VIII | 1KS20ME005 | PRANITHA.R | 84.15% |
| 3 | | 1KS20ME007 | SHREYAS.S.K | 83.23% |

# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING – IOT, CYBERSECURITY INCLUDING BLOCKCHAIN

## ABOUT THE DEPARTMENT :

**Dr. Ganga Holi**
**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 CSE-ICB 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 imbibe cutting edge technological capabilities supported by pioneering research and industry collaboration encompassed with ethical principles."

## MISSION

- **To equip students with the knowledge and skills needed to drive technological advancements.**
- **To provide a dynamic learning environment that empowers students to become adept, ethical,**
- **and innovative technologists.**
- **To train in the digital security space and contribute positively to society through transformative education.**

## DEPARTMENT WELCOMES

1. Dr. Ganga Holi       Professor & HOD

2. Mr. Kushal Kumar B N       Associate Professor

3. Mrs. Rajashree M Byalal       Asst. Professor

4. Ms. Rachana V Murthy       Asst. Professor

5. Ms. Poornima H N       Asst. Professor

# LATEST TECHNOLOGY

## INTERNET OF THINGS (IOT)

The Internet of Things (IoT) has experienced incredible growth, thanks to technological advancements and the surge in demand for instant insights into digital transformation solutions and activities.



The digitalization of things has drastically increase over the past few years and it has been made possible only because of cheap resources that are being made available to everyone so that each and every person can access these trends. But we cannot talk about digitalization without IoT. It's like a boon to technology and in today's era, no business can even grow without the implementation of IoT. Whether it's a Startup or a Big Multinational company, everyone is required IoT to outperform its competitors.

## CYBERSECURITY

Businesses of all sizes, corporate entities, organizations, and even governments have embraced computerized systems to streamline daily operations. Consequently, ensuring cybersecurity has emerged as a paramount objective to protect data from many online threats and unauthorized intrusions. As technology evolves, so do cybersecurity trends, with data breaches, ransomware attacks, and hacks becoming increasingly commonplace.



## BLOCKCHAIN

The foundation of the new Internet, Web3, blockchain technology is transforming the business world day by day with technological advances. According to the study by Fortune Business Insights, the blockchain market size was valued at $17.57 billion at the end of 2023 and is predicted to reach $469.9 billion by the year 2030. Though it was first centred around cryptocurrency, blockchain technology has been effectively applied to a wide range of sectors.

With advanced security and privacy-enhancing functionalities, trends in blockchain technology are opening new doors of opportunities for businesses across a wide range of industries. As the years progress, blockchain technology is growing and bringing new blockchain trends for businesses to leverage.

# EVENTS CONDUCTED

- The Department of CSE-ICB 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 CSE-ICB organized 4 days Workshop on "CYBER SECURITY NETWORKING AND WIRESHARK" BY MR AKHIL MOHAN, SOLUTION ARCHITECT AT AKAMAI TECHNOLOGIES on 15/7/2024 to 18/7/2024.



- The Department of CSE-ICB organized TECHNICAL TALK on "DBMS PROGRAMMING WITH DJANGO" BY MRS ROOPA MAHADEV, CEO of ACURA INFO SOLUTION on 23/7/2024.



- The Department of CSE-ICB organized 1 day Workshop on "IBM SKILL BUILD ON INSIGHTS INTO AI" BY MR. SRIKANTH NIVARTHI, CEO & FOUNDER DIRECTOR, TURNIN LEARNING SOLUTIONS PRIVATE LIMITED on 13/09/2024.



- The Department of CSE-ICB organized TECHNICAL TALK on "BLOCK CHAIN TECHNOLOGIES" BY MR. SRINIVAS APRAMEYA on 18/09/2024.

- The Department of CSE-ICB organized 3 days Workshop on "PRO MERN STACK" BY MR. DEEPAK RAMANUJAM V R, Junior Software Developer AND MR. BHASKAR N PRASAD, Senior Software Developer at Thought Process LLP Bengaluru on 21/11/2024 to 23/11/2024.



- The Department of CSE-ICB organized 1 DAY INDUSTRIAL VISIT to KTPO CONVENTION CENTRE WHITE FIELD, BENGALURU for IoT TECH EXPO on 02.02.2024.



## BOOK CHAPTER PUBLICATIONS

- Dr. Surekha Borra , Dr Renuka Veerappa Tali, Channel Fusion Filter and Invariant Scattering Network-Based Leukocyte Image Discrimination Framework, Research in International Journal of Intelligent Engineering &Systems , in the year December 17, 2023, Vol.17, No.1, 2024,862,DOI:10.22266/ijies2024.0229.73. https://inass.org.

## INTERNATIONAL JOURNAL PUBLICATIONS

- Mr. Kushal Kumar B N "Comprehensive Insights into Machine Learning for Intrusion detection systems in IOT & its datasets." IEEE Conference on DATA ENGINERRING AND COMMUNICATION SYSTESM 22-23 March 2024, Bangalore India [International Conference].

- Dr. Ganga Holi published a Paper Titled "Comparison of optimization techniques particle swarm optimization with genetic algorithm for medical image watermarking" Healthcare Big Data Analytics: Computational Optimization and Cohesive Approaches, De Gruyter, 2024, pp. 25-54 – International Journal.

- Mrs Rajashree Bylal and Ms Rachana V Murthy published a Paper Titled "Home automation with multiple control options based on IOT" in Journal of Emerging Technologies and Innovative Research (JETIR), May 2024, Volume11, Issue5 - International Journal.

## ACHIEVEMENTS BY STUDENTS

- Saakshi S Urs (USN:1KS22IC039) Secured Runner-up in Table Tennis (Women) Inter-Collegiate Bangalore South Division Level Tournament held at JSSATE from 12/07/2023 to 13/07/2023.

- Nishanth R (USN: 1KS22IC026) Secured Second Place in the "Hacking Hardware" workshop organized by Dept of E&C in association with Garut Aerobotics Club and KSIT IEEE on 21st and 22nd July 2023. Participated in 24hrs Hackathon organized by the Jyoti Institute of Technology.

- Tejas Gowda N (USN: 1KS22IC056) Secured Second Place in the "Hacking Hardware" workshop organized by Dept of E&C in association with Garut Aerobotics Club and KSIT IEEE on 21st and 22nd July 2023.Participated in 24hrs Hackathon organized by the Jyoti Institute of Technology. Coordinated an event named Tech Vistara hosted by Garut Aerobotics Club. Co-rdinated an event "Tekzeon" organized by Metanoia Club in association with Department of CSE-ICB held on 29th October 2024. Participated in the Fusion Ryder event conducted during the International Level Annual Technical Symposium, Phase Shift 2024, held at BMSCE on the 5th and 6th of December 2024.

- Arnav P (USN: 1KS22IC005), Gagandeep Naidu L (USN: 1KS22IC013), Tushar Bhat (USN: 1KS22IC058) and Shreyas Kulkarni (USN: 1KS22IC049) participated in the National Level " GenAI Hackathon 2024" organized by KPR Institute of Engineering and Technology in association with Intel on 04.01.2024 and 05.01.2024.

- Tanish Kaveriappa P (USN: 1KS22IC054), Varun N Prakash (USN: 1KS22IC061),Nishmitha Shetty B S (USN: 1KS22IC027) and Gagandeep Naidu L (USN: 1KS22IC013) participated in the HACKQUEST (24-Hour National Level HACKTHON) as part of TECHNOSPARK 2024 held on 22nd and 23rd JULY 2024 at DSATM Campus, Bengaluru.

- J Yagnesh Anuga (USN:1KS22IC016) and Koushal K Nayaka (USN:IKS23IC020) Participated in "Hacking Hardware" workshop organized by Dept of E&C in association with Garut Aerobotics Club and KSIT IEEE on 21st and 22nd July 2023.

## EVENTS ATTENDED BY FACULTY

- Dr. Ganga Holi, Professor & Head participated in 10 days faculty development program on "Essentials of Cybersecurity in Blockchain Technologies" from 19/02/2024 to 29/02/2024.

- Mr. Kushal Kumar B N, Associate Professor participated in IEEE International Conference on Data Engineering and Communication Systems(ICDECS) on "Comprehensive Insights into Machine Learning for Intrusion Detection Systems in IoT & its Datasets" from 22/03/2024 to 23/03/2024.

- Mrs. Rajashree M Byalal, Assistant Professor participated in a 6 days faculty development program on "Data Analytics Using Python For Health Care Applications" from 4/12/2023 to 9/12/23.

## PATENT PUBLICATION BY FACULTY:

- Mrs Rajashree Byalal and Ms Rachana V Murthy filed a patent on "WATER QUALITY PREDICTION FOR SMART MARICULTURE" and it was granted on 04th OCTOBER 2024.

## 100% RESULTS

| IV SEMESTER | | |
| --- | --- | --- |
| SUBJECT CODE | SUBJECT | STAFF NAME |
| BIC401 | Elements of cyber security and Iot | Dr GANGA HOLI |

# TOPPERS

| III SEMESTER | | |
|---|---|---|
| USN | NAME | PERCENTAGE |
| 1KS22IC050 | SIVA HARSHITHA | 82 |
| 1KS22IC043 | SANSKRITI RAGHAV | 81 |
| 1KS22IC040 | SADIYA NOOR | 80 |

| IV SEMESTER | | |
|---|---|---|
| USN | NAME | PERCENTAGE |
| 1KS22IC050 | SIVA HARSHITHA | 90 |
| 1KS22IC019 | K M ANIL KUMAR | 88 |
| 1KS22IC043 | SANSKRITI RAGHAV | 86 |

# DEPARTMENT OF APPLIED SCIENCES AND HUMANITIES
## PHYSICS,CHREMISTRY&MATHEMATICS
### ABOUT THE DEPARTMENT :



**Dr. Shashikala  B S**



**Dr. Kiran Kumar S R**



**Dr. Jalaja P**

Welcome to our department which provides knowledge and tools that enable bright minds to become Engineers. As the Heads of the Department of Applied Science and Humanities(Physics , Chemistry and Maths ), We are delighted to share the latest developments and achievements within our department. Our interdisciplinary approach continues to foster innovation and creativity, equipping our students with the essential skills to tackle real-world challenges. From groundbreaking research initiatives to impactful community outreach programs, our faculty and students are making significant contributions to the fields of science and humanities. With a commitment to excellence and a passion for discovery, we strive to cultivate a dynamic learning environment where curiosity thrives and boundaries are pushed. I am proud of the dedication and hard work demonstrated by our department members and look forward to seeing the continued growth and success of our endeavors

## VISION
"To create a conducive environment to impart sound fundamentals and problem solving Skills among the Students and prepare them for higher learning"

## MISION
- To continuously improve the teaching–learning process and maintain effective pedagogy.
-  To inculcate ethical and professional values among students.
- To create Institute-industry interaction to promote research.

## DEPARTMENT WELCOMES

Dr Shashikala B S
Dr Sheeja Krishnan
Ms. Supriya M D
Ms. Rekha R
Ms. Kusuma V
Ms. Yukthi
Ms. Shwetha  K C

# LATEST TECHNOLOGY

**Report on Latest Technological Inventions and Implementations in Mathematics and Physics.**

## Introduction
This report highlights recent advancements in the fields of mathematics and physics, showcasing significant technological inventions and their practical implementations.

## Mathematics

### 1. Graph Theory Advances
In 2023, mathematicians achieved a breakthrough in graph theory by establishing a new, tighter upper bound for Ramsey numbers. These numbers are crucial in understanding the size that graphs must reach before inevitably containing specific structures. This advancement has potential applications in computer science, network theory, and combinatorial optimization.

### 2. Aperiodic Monotile Discovery
A new aperiodic monotile, also known as an "Einstein," was discovered. This single shape can tile a plane without repeating, offering new insights into patterns and structures. This discovery has implications for materials science, particularly in the design of **quasicrystals and other non-repetitive structures.**

### 3. Mathematics for Social Challenges
The organization "Mathematics for Humanity" is leveraging mathematical techniques to tackle social issues. One notable application is in ensuring fairness in legislative district maps, which can help combat gerrymandering and promote equitable representation.

## Physics

### 1. Gravitational Wave Background
Physicists have detected the gravitational wave background resulting from collisions of supermassive black holes. This discovery, made after 15 years of observations, provides a new way to study the universe's most massive objects and their interactions over cosmic time scales.

### 2. Quantum Energy Teleportation
Researchers have successfully teleported quantum energy in a laboratory setting. This breakthrough could revolutionize quantum computing and communication by enabling more efficient energy transfer and reducing the need for physical connections.

### 3. James Webb Space Telescope (JWST) Discoveries
The James Webb Space Telescope continues to deliver groundbreaking data and images, challenging existing theories about the formation of stars, planets, and black holes. Its observations are providing unprecedented insights into the early universe and the processes that shape cosmic evolution.

## Conclusion
The advancements in mathematics and physics highlighted in this report demonstrate the continuous and exciting progress in these fields. These discoveries not only enhance our understanding of fundamental principles but also pave the way for practical applications that can benefit society.

## EVENTS CONDUCTED

1. The Department of Applied Sciences and Humanities in association with the Institution Innovation Council cell of the college organized a one day Science Fest STEM FIESTA on 23-03-2024

2. The Department of Applied Sciences and Humanities organized a one day session on Individual and team work, Communication , Life-long learning the topic being Study Abroad Opportunities For Engineering Students the speaker Mr Manoj Bajpai

3. The Department of Applied Sciences and Humanities organized a talk on Personality development, team building and time management on 02/04/2024 the resource person Prof Saptagiri

4. The Department of Applied Sciences and Humanities organized a Workshop on Machine learning and Image processing on 04/04/2024-05/04/2024 the resource persons Dr Ganga Holi, Dr Pradeep Desai and Prof Kushal Kumar

5. The Department of Applied Sciences and Humanities organized a 6 days soft skills training and placement program for the II semester on Students Problem Analysis Individual and Team work ,communication, Life-long learning, Ethics,. between 03/06/2024 to 06/06/2024

6. The Department of Applied Sciences and Humanities organized a talk on Applications of Quantum mechanics for Engineering students on 07/06/2024 the resource person Dr Daruka Prasad

## PUBLICATIONS IN INTERNATIONAL JOURNALS

1. Dr. Kiran Kumar S.R Prof and HOD published a paper in the International Journal entitled Evolution of $SnO_2$ nanoparticles for the electrochemical sensing of dopamine including toxic dyes degradation in the International Elsevier- Journal Sensors International, **5(2024),100278, ISSN: 2666-3511**, **Link:https;//doi.org/10.116/j.sintl.2023.100278** Eco-friendly synthesis of carbon Nanospheres for sensitive detection of dopamine, accepted to IEEE,2024, paper ID:1652

2. Dr. Jalaja P Prof and HOD published a paper in the International Journal entitled Evolution of $SnO_2$ nanoparticles for the electrochemical sensing of dopamine including toxic dyes degradation in the International Elsevier- Journal Sensors International, **5(2024),100278, ISSN: 2666-3511,** **Link:https;//doi.org/10.116/j.sintl.2023.10028** Eco-friendly synthesis of carbon Nanospheres for sensitive detection of dopamine, accepted to IEEE,2024, paper ID:1652

3. Dr. Harisha S Asst. Professor published a paper in the International Journal entitled Evolution of $SnO_2$ nanoparticles for the electrochemical sensing of dopamine including toxic dyes degradation in the International Elsevier- Journal Sensors International, **5(2024),100278, ISSN: 2666-3511,** **Link:https;//doi.org/10.116/j.sintl.2023.10028** Eco-friendly synthesis of carbon Nanospheres for sensitive detection of dopamine, accepted to IEEE,2024, paper ID:1652

5. Dr. Shashikala B S Prof and HOD published a paper in the International. Journal entitled "Moringa Oleifera leaf-based zinc oxide nanoparticles: Green synthesis, characterization, and their antibacterial investigations in the **International Journal Inorganic Chemistry Communication**
**Volume and Page No170 (2024) 113355**
**Link:**
**https://doi.org/10.1016/j.inoche.2024.113355**

6. Dr. Shobha G Asst. Professor published a paper in the International Journal entitled "Moringa Oleifera leaf-based zinc oxide nanoparticles: Green synthesis ,antibacterial investigations  and their characterization in the **International Journal Inorganic Chemistry Communication**
**Volume and Page No170 (2024) 113355**
**Link:**
**https://doi.org/10.1016/j.inoche.2024.113355**

7. Ms. Supriya M D Asst. Professor published a paper entitled "Soft graph on distance -2 of a minimal dominating set of a graph" at the **International Journal of Information Technology**
**Link:**
**https://doi.org/10.1016/j.inoche.2024.113355**

## BOOK CHAPTER PUBLICATION

Dr. Shobha G Asst. Professor
**Integrating AI, Machine Learning, and IoT in Bioinformatics: Innovations in Biotech and Medical Research**
<u>**Title of the Chapter**</u>
**Enabling Technologies of IoT on Health Care bearing ISBN No**
**978-81-966500-0-1**
**DOI:10.48001/978-81-966500-0-1-1**

**Authors**"Allwin Ebinesar, Jacob Samuel Sehar , Ramya D L , **Shobha G** and Kavya M V published in the year 2024

## EVENTS ATTENDED BY FACULTY

1. Dr Kiran Kumar S R Prof and HOD attended a five day Faculty Development Programme on **"RECENT TRENDS OF ADVANCED FUNCTIONAL MATERIAL** by the Department of Physics Velammal College of Engineering and Technology Madurai held during 25th to 28th March 2024

2. Dr Kiran Kumar S R Prof and HOD Participated in the Workshop on hands on training on electrochemical techniques and energy storage systems at **CIIRC,** Bengaluru, on 24th October 2024

3. Dr. Jalaja P Prof and HOD attended an Eight week Faculty development program NPTEL COURSE (ONLINE) on the topic **"RESEARCH-METHODOLOGY"**
conducted by the IIT Madras from February-April 2024(8 WEEKS)

4. Dr. Jalaja P Prof and HOD successfully completed an Eight week NPTEL COURSE (ONLINE) exam on the topic "**RESEARCH METHODOLOGY**" conducted by the IIT Madras from February-April 2024

5. Dr. Jalaja P Prof and HOD attended an Eight week Faculty development program NPTEL COURSE (ONLINE) on the topic (ONLINE) **"ACCREDITATION AND OUTCOME BASED LEARNING"** conducted by the IIT Kharagpur from AUG-OCTOBER 2024(8 WEEKS

6. Dr. Jalaja P Prof and HOD successfully completed an Eight week NPTEL COURSE (ONLINE) exam on the topic **"ACCREDITATION AND OUTCOME BASED LEARNING"** conducted by the IIT Kharagpur from AUG-OCTOBER 2024(8 WEEKS)

7. Dr Shashikala B S Prof and HOD attended a twelve week Faculty development program NPTEL COURSE (ONLINE) on the topic **"INTRODUCTION TO LASER"** conducted by the IIT Madras from JULY-OCTOBER 2024

8.Dr Shashikala B S Prof and HOD successfully completed a twelve week NPTEL CERTIFICATION COURSE (ONLINE) exam on the topic **"INTRODUCTION TO LASER"** conducted by the IIT Madras from JULY-OCTOBER 2024

9. Dr Sheeja Krishnan attended a twelve week Faculty development program NPTEL COURSE (ONLINE) on the topic **"INTRODUCTION TO LASER"** conducted by the IIT Madras from JULY-OCTOBER 2024

10.Dr Sheeja Krishnan successfully completed a twelve week NPTEL CERTIFICATION COURSE (ONLINE) exam on the topic **"INTRODUCTION TO LASER"** conducted by IIT Madras from JULY-OCTOBER 2024

11. Dr. Shobha G Asst. Professor attended an Eight week Faculty development program NPTEL COURSE (ONLINE) on **"RESEARCH METHODOLOGY"** conducted by the IIT Madras from February-April 2024.

12. Dr. Shobha G Asst. Professor successfully completed an Eight week NPTEL COURSE (ONLINE) exam on the topic "RESEARCH METHODOLOGY" conducted by the IIT Madras from February-April 2024

13. Dr Shobha Asst. Professor attended an Eight week Faculty development program NPTEL COURSE (ONLINE) on the topic **"ACCREDITATION AND OUTCOME BASED LEARNING"** conducted by the IIT Kharagpur from AUG-OCTOBER 2024

14. Dr Shobha Asst. Professor successfully completed an Eight week NPTEL COURSE (ONLINE) exam on the topic **"ACCREDITATION AND OUTCOME BASED LEARNING"** conducted by the IIT Kharagpur from AUG-OCTOBER 2024(8 WEEKS)

15. Ms Anuradha M V Asst. Professor attended an Eight week Faculty development program NPTEL COURSE (ONLINE) on the topic **"ACCREDITATION AND OUTCOME BASED LEARNING"** conducted by the IIT Kharagpur from AUG-OCTOBER 2024

16. Ms. Anuradha M V Asst. Professor successfully completed an Eight week NPTEL COURSE (ONLINE) exam on the topic **"ACCREDITATION AND OUTCOME BASED LEARNING"** conducted by the IIT Kharagpur from AUG-OCTOBER 2024

17. Mr Sunil Kumar attended a one day Faculty Development Programme on "THE ART OF AI PROMPTING" organized by the KS Institute of technology ,Bengaluru on 14th December 2024

18. Dr Sheeja Krishnan attended a one day Faculty Development Programme on **"THE ART OF AI PROMPTING"** organized by the KS Institute of technology ,Bengaluru on 14th December 2024

19. Ms. Kavya T N Asst. Professor attended a one day Faculty Development Programme on **"THE ART OF AI PROMPTING"** organized by the KS Institute of technology ,Bengaluru on 14th December 2024

20. Dr Sheeja Krishnan attended a conference on Research funding and Schemes in India organized by the Kammavari Sangham School of Engineering and Management on 30th November 2024

21. Mrs. Shylaja K.R Asst. Professor attended a two day Faculty Development Programme on **"SMART CITIES AND MOBILITIES"** organized by the JIT ,Bengaluru from 9th and 10th of August 2024

22. Mrs. Shylaja K.R Asst. Professor attended a five days Faculty Development Programme **"ENHANCING PEDAGOGY THROUGH GENERATIVE AI"** organized by the MSRIT, BANGALORE from 19th to 23rd of August 2024.

23. Mrs. Shylaja K R Asst. Professor attended an Eight week Faculty development program NPTEL COURSE (ONLINE) on the topic **"RESEARCH METHODOLOGY"** conducted by the IIT Madras from February-April 2024

24. Mrs. Shylaja K R Asst. Professor successfully completed an Eight week NPTEL COURSE (ONLINE) exam on the topic **"RESEARCH METHODOLOGY"** conducted by the IIT Madras from February-April 2024

25. Ms. Shylaja K R Asst. Professor attended an Eight week Faculty development program NPTEL COURSE (ONLINE) on **"ACCREDITATION AND OUTCOME BASED LEARNING"** conducted by the IIT Kharagpur from AUG-OCTOBER 2024

26. Ms. Shylaja K R Asst. Professor successfully completed an eight week NPTEL COURSE (ONLINE) exam on the topic **"ACCREDITATION AND OUTCOME BASED LEARNING"** conducted by the IIT Kharagpur from AUG-OCTOBER 2024

27. Mrs. Shylaja K.R Asst. Professor attended a one day workshop titled **"AICTE ACTIVITY POINTS VTU, BELAGAVI"** organized by SKIT,BENGALURU on 23/11/2024.

28. Mrs. Shylaja K.R Asst. Professor attended a one day workshop titled **"THE ART OF AI PROMPTING"** organized by KSIT, BENGALURU on 14/12/2024.

29. Mrs. Shylaja K.R Asst. Professor attended a five day workshop titled "Outcome Based Education" organized by KSIT, BENGALURU, from 3rd to 7th June 2024

30 . Mrs. Shylaja K.R Asst. Professor attended a 3 day Poster presentation for National Conference titled **"Poster Walk way of Discovery"** organized by Government of Karnataka from 1st to 3rd August 2024 .

31.Mrs. Radhika N P Asst. Professor attended the two day Faculty Development Programme on "**SMART CITIES AND MOBILITIES"** organized by the JIT, Bengaluru from 9th and 10th of August 2024

32. Mrs. Radhika N P Asst. Professor attended the five days Faculty Development on "**ENHANCING PEDAGOGY THROUGH GENERATIVE AI**" organized by the MSRIT, BANGALORE from 19th to 23rd of August 2024.

33. Mrs.Radhika N P Asst. Professor attended an Eight week Faculty development program NPTEL COURSE (ONLINE) on **"RESEARCH METHODOLOGY"** conducted by the IIT Madras from February-April 2024

34. . Mrs Radhika N P Asst. Professor successfully completed an Eight week NPTEL COURSE (ONLINE) exam on the topic **"RESEARCH METHODOLOGY"** conducted by the IIT Madras from February-April 2024

35. Ms. N P Radhika Asst. Professor successfully completed an Eight week NPTEL COURSE (ONLINE) exam on the topic "ACCREDITATION AND OUTCOME BASED LEARNING" conducted by the IIT Kharagpur from AUG-OCTOBER 2024

3 Ms. N P Radhika Asst. Professor successfully completed an Eight week NPTEL COURSE (ONLINE) exam on the topic **"ACCREDITATION AND OUTCOME BASED LEARNING"** conducted by the IIT Kharagpur from AUG-OCTOBER 2024

35. Mrs. Radhika N P Asst. Professor attended a one day workshop titled **"THE ART OF AI PROMPTING"** organized by KSIT, BENGALURU on 14/12/2024.

35. Mrs. Radhika N P Asst. Professor attended a five days workshop titled "**Outcome Based Education"** organized by KSIT, BENGALURU, from 3rd to 7th June 2024

36. Mrs. Radhika N P Asst. Professor Participated in the Poster presentation in Three day national Conference titled **"Poster Walk way of Discovery"** organized by Government of Karnataka from 1st to 3rd August 2024

## ACHIEVEMENTS BY FACULTY

**Dr Jalaja P** Professor and HOD appointed as the BOE Member of VTU Mathematics Board 2024-25.

## 100% RESULTS
## I Sem

| SUBJECT CODE | SUBJECT/SEM /SECTIONS | STAFF NAME |
|---|---|---|
| BPHYS102 | Physics for CSE stream<br>Sem: 1<br>Sec: A | DR.Madhavi S |
| BCEDK103 | Computer-Aided Engineering Drawing<br>Sem: 1<br>Sec: F&J | Dr. Umashankar M |
| BCEDK103 | Computer-Aided Engineering Drawing<br>Sem: 1<br>Sec: G | Mr. Prasad K |
| BCEDK103 | Computer-Aided Engineering Drawing<br>Sem: 1<br>Sec: H | Mr. Manjunath B R |
| BCEDK103 | Computer-Aided Engineering Drawing<br>Sem: 1<br>Sec: I | Mr. Anil Kumar A |
| BENGK106 | Communicative English<br>Sem: 1<br>Sec: (A,B,D,E,F,G&)H | Mrs. Anuradha M V |
| BICOK107 | Indian Constitution<br>Sem: 1<br>Sec: (B,D,I&J) | Mrs. Anuradha M V |

| SUBJECT CODE | SUBJECT/ SECTIONS | STAFF NAME |
|---|---|---|
| BSFHK158 | Scientific Foundations of Health<br>Sem: 1<br>Sec: (A,B,C,D&E) | Dr. Shobha G |
| BIDTK158 | Innovation and Design Thinking<br>Sem: I<br>Sec: (F, G I & J ) | Dr.Shobha G |
| BKBKK107 | Samskrutika Kannada/ Balake Kannada<br>Sem: I<br>Sec: (G, I & J ) | Mr. Thrimurthy R |

| SUBJECT CODE | SUBJECT/ SECTIONS | STAFF NAME |
|---|---|---|
| BIDTK258 | Scientific Foundations of Health<br>Sem: 1<br>Sec: (A,B,C,D&E) | Dr. Shobha G |
| BIDTK258 | Innovation and Design Thinking<br>(F, G I & J Section) | Dr.Shobha G |
| BCEDK203 | Computer-Aided Engineering Drawing<br>Sem: II<br>Sec: B | Dr. Umashankar M |

| Code | Subject | Faculty |
|---|---|---|
| BCHES202 | Applied Chemistry for CSE Sem: II Sec: C | Mrs. Shylaja KR |
| BCEDK203 | Computer-Aided Engineering Drawing Sem: 11 Sec: D | Mr. Manjunath B R |
| BCHES202 | Applied Chemistry for CSE Sem: II Sec: E | Dr. Harisha S |
| BCEDK203 | Computer-Aided Engineering Drawing Sem: 11 Sec: E | Mr. K Prasad |
| BCHES202 | Applied Chemistry for CSE Sem: II Sec: H | Mrs . Radhika N P |
| BETCK205 E | Renewable Energy Sources Sem: II Sec: H | Dr. Nirmala L |
| BENGK206 | Communicative English Sem: 1 Sec: (A,B,D,E,,G,H,I &J) | Mrs. Anuradha M V |
| BKBKK207 | Samskrutika Kannada/ Balake Kannada Sem: I Sec: (A,B,C & D ) | Mr. Thrimurthy R |

| Code | Subject | Faculty |
|---|---|---|
| BIDTK258 | Innovation and Design Thinking Sem: II Sec: A | Mrs. Pallavi K |
| BIDTK258 | Innovation and Design Thinking Sem: II Sec: B | Mrs. Roopa Deshpande |
| BIDTK258 | Innovation and Design Thinking Sem: II Sec: C | Mrs. Suma Rajesh |
| BIDTK258 | Innovation and Design Thinking Sem: II Sec: D | Mr. Wasim Yasin |
| BIDTK258 | Innovation and Design Thinking Sem: II Sec: E | Ms. Roopa K Murthy |
| BICOK207 | Indian Constitution Sem: II Sec: (H,I&J) | Mrs. Anuradha M V |
| BSFHK258 | Scientific Foundations of Health Sem: II Sec: (F,G&H) | Ms. Amrutha R |
| BSFHK258 | Scientific Foundations of Health Sem: II Sec: (F,G&H) | Dr. Srinidhi Acharya S R |
| BSFHK258 | Scientific Foundations of Health Sem: II Sec: (F,G&H) | Mr. Ranganath N |

# TRAINING AND PLACEMENT

## ABOUT THE DEPARTMENT :

**Dr. Harish R**
Training and
Placement officer

At KSIT, We have established a Stand-Alone Training & Placement Department which is equipped with State of the Art infrastructure having 200 Seating Capacity Conference Hall, 125 dedicated systems, 04 Group Discussion Rooms, and 08 inter- view rooms to support On-campus Placement Activities.

We provide extensive training to our students starting form the first semester till their 7th semester on Quantitative Aptitude, Logical Reasoning, Soft Skills(Communication, Group discussion. Interview Skills) etc.

We provide domain specific technical training from experts from the Industry during their Pre-Final year and Final year to prepare them for campus placements.

We also offer various Company Specific Training to eligible students and conduct multiple Mock- Tests before any company visits our institution for Campus Drive

We invite Experts from Industry to address our students on various areas for career enhancement.

We are glad that more than 90% of the eligible students are getting placed every year. Our Aim is to provide employ- ment opportunities to all our students.

We have leading companies in the likes of Infosys, NTT Data, KPMG, Mindtree, Sonata Software, TCS, Wipro, Tech Mahindra, LTI, Capgemini, Cognizant and many more recruiting our students every year.

We have signed MoU's with various industry bodies to facilitate our students to expose to Industry needs and Expectations.

Also the Training and Placement Department organizes various awareness programmes Bi-Annually on GRE GMAT and TOEFL to students who are willing to purse higher education both in India and Abroad.

KSIT established Training and Placement department in 2004 and since its inception the department has been giving numerous opportunities to it students of various branches. The department in has been instrumental in establishing connects with Corporates as well as Industries. We have partnered with various IT companies which visits our campus to recruit our students every year in huge numbers.

We have set the culture of training our students right from their first semester till their last semester on various aspects which will mould them into a through professional and make them industry ready. These training programmes are framed with utmost care keeping the industry expectations and dynamics in mind.

We, at KSIT-Placements make sure that every eligible student gets multiple opportunities with packages ranging 4.00 LPA to 18.0 LPA. We are extremely proud that our students are working in various Multi-National Companies in India and in Abroad.

We also organize various Industry-Readiness Programmers to our students to help them cope up with the changing trends in the Job Market. We have state of the art infrastructure to execute campus drives at our Institution with Large Seminar hall with Audio-Visual Aids, Computer Center with latest configuration systems, Group Discussion Rooms, Interview Rooms etc which facilitate campus drives.

Our Main Goal is make sure every student who graduates from KSIT should have a Job in Hand.

# DETAILS FROM JAN 2024 TO DECEMBER 2024
## COMPANIES IN WHICH STUDENTS HAVE BEEN PLACED IN THE YEAR 2024:

| Sl.No. | Name of the Company | No.of offers made | logo | Package offered |
|---|---|---|---|---|
| 1 | UNACADEMY | 1 | | 8 LPA |
| 2 | STRATOGENT | 2 | | 3.68 LPA |
| 3 | LUMOUS LEARNING | 8 | | 3 to 5 LPA |
| 4 | VTIGER | 2 | | 2.76 LPA |
| 5 | UNIVISION | 13 | | 3 to 5 LPA |
| 6 | JLL | 2 | | 3.25 LPA |
| 7 | MATH CO | 4 | | 8 LPA |
| 8 | LEKHA WIRELESS | 2 | | 4 LPA |
| 9 | SASKEN | 1 | | 5 LPA |
| 10 | MOTHERSON | 2 | | 3.24 LPA |
| 11 | NANDI TOYOTO | 1 | | 3.80 LPA |
| 12 | ACADEMOR | 9 | | 4 to 6 LPA |

| 13 | TCS | 1 | | 3.36 LPA |
|---|---|---|---|---|
| 14 | 1LATTICE | 3 | | 4.90 LPA |
| 15 | MPHASIS | 43 | | 4.00 LPA |
| 16 | HIVEMINDS | 10 | | 3.00 LPA TO 3.50 LPA |

# LIBRARY AND INFORMATION CENTRE
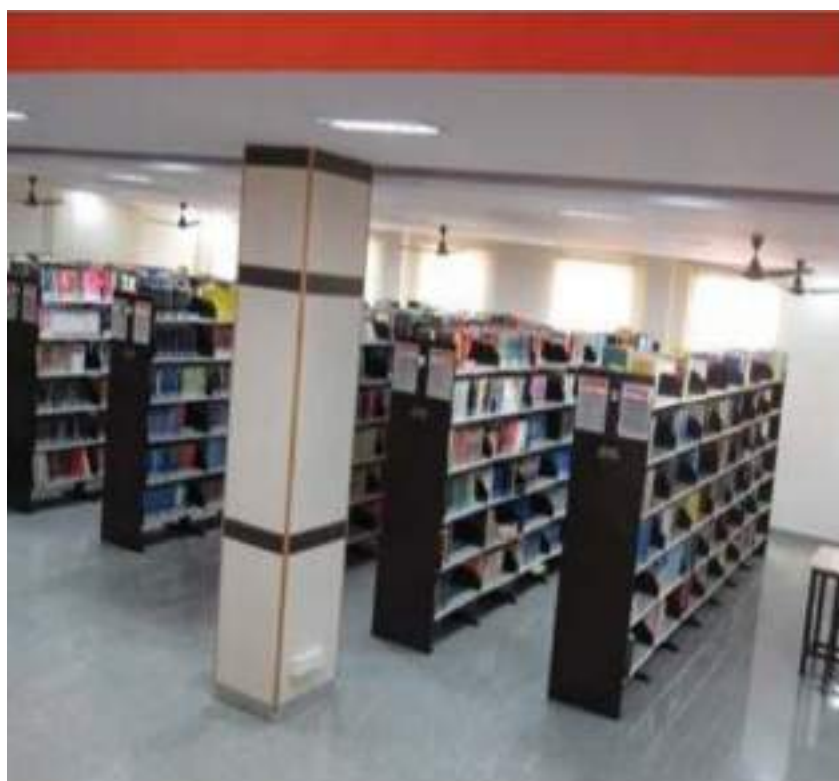
## ABOUT THE DEPARTMENT :



**DR. V BHARATHI**

Chief Librarian

KSIT library as a resource centre for teaching, learning and research, is the heart of the academic centre , it's home for all information services. It provides continuous access to knowledge and information in the library to the students and faculty of the institute for achieving excellence in their chosen discipline. Library is spread over two floors with 200 seating capacity, the state-of-art Digital library, Discussion room Stack area, Reference section, Circulation counter, OPAC search, Journals/ Mag zines and News paper sections are made available.

| Under-Graduate | |
|---|---|
| Volumes | 36705 |
| Titles | 5060 |
| Print Journals | 06 |
| E-Journals | 7529 |
| E-Books | 43369 |

| Post-Graduate | |
|---|---|
| Volumes | 709 |
| Titles | 219 |

# NATIONAL SERVICE SCHEME(NSS)



**Naveen V**
**NSS Programme Officer**

## ABOUT THE DEPARTMENT :

The Motto of NSS "Not Me But You", reflects the essence of democratic living and upholds the need for self-less service. NSS helps the students development & appreciation to other person's point of view and also show consideration towards other living beings. The philosophy of the NSS is a good doctrine in this motto, which underlines on the belief that the welfare of an individual is ultimately dependent on the welfare of the society as a whole and therefore, the NSS volunteers shall strive for the well-being of the society.

## STUDENTS ACHIEVEMENTS

We are proud to announce that our students have attended the prestigious "NATIONAL INTEGRATION CAMP(NIC)", conducted with 200 NSS volunteers from all over the country which was held at Guru Jambeshwar University of Science and Technology, Hisar, Haryana, from 11th October to 17th October 2024.



**Sindhu M Nimbal**
**1KS21EC093**



**Varsha Jayakumar**
**1KS21EC111**

**EVENTS CONDUCTED:**

- The institution in association with NSS unit organized **Republic Day** at college premises on 26th January 2023. The management, teaching and non-teaching staffs were present in the event.




- NSS volunteers from KS Institute of Technology organized a **Zero Plastic Usage Campaign** at Banashankari temple from 9:00 am to 2:00 pm on 19-02-2024 . The event commenced with instructions provided by Shantha Tumala and Vasuki Iyengar




- The NSS wing of KSIT, Bangalore, organized a Poster Making Competition in celebration of Earth Day on April 23, 2024.

- The NSS Unit of KSIT conducted a voter awareness campaign for second-year Electronics and Communication students (A and B sections) on 24\04\2024



- NSS Special Camp-Abhyudaya was held at : Ramanahalli, Bidadi Hobli, Ramanagara District from : 07-06-2024 to 14-06-2024 to create awareness regarding cleanliness.

- **"International Yoga Day"** was organized on 10\06\2024 by NSS cell, KSIT in association with Institution's Innovation Council and applied science and humanities a college premises to promote importance of yoga. All staffs and students were taught the importance of yoga in life to maintain the harmony between body and mind.



- On June 13, 2024, the NSS unit of KS Institute of Technology (KSIT) organized an environmental awareness program in Ramanahalli village to commemorate World Environment Day.

- NSS KSIT in collaboration with BRAHMAKUMARI ASHRAM conducted a program which is aimed at Drug addiction free students with fundamental concepts on 24/06/2024. The Nasha Mukt Bharath Abhiyaan was taken over by Sister Brahmakumari Megha Deepa.



- NSS unit of KSIT in association with Anti Sexual harassment Committee organized "**Drug Awareness Program**" on 25th June 2024 to create awareness about the deadly impacts of drugs on human body. Sri. Umesh, Inspector, Department of Police Thalaghattapura addressed for the 6th semester students.

- The 78th Independence Day was celebrated with great enthusiasm by all the students. On this occasion, the NSS Unit of KSIT took the initiative in organizing the event. President Sri R. Rajagopal Naidu, directors from the management were present on the occasion.



- The NSS Unit of KSIT, in collaboration with the BBMP (Bruhat Bengaluru Mahanagara Palike) department, organized a Swachh Bharat Abhiyan event on 27th September 2024 at Ward 1980, Hemmigepura.

- On 20th October 2024, DHEE Hospital, in collaboration with KSIT, organized a highly anticipated Movathon event to commemorate World Arthritis Day.



- NSS wing of KSIT under the umbrella of National Service Scheme (NSS), in association with Rotary Club Vidyapeeta Bangalore and Indian Red Cross Society organized "**Blood Donation Camp**" on 14th November 2024 at KSIT. The camp was inaugurated with a motivating session by the experts and senior doctors to make students aware about the importance of this best practice.

- NSS wing of KSIT under the umbrella of National Service Scheme (NSS) organized an event on "**KANNADA RAJYOTSAVA**" on 1st November 2024 at KSIT, Bangalore. The Program was inaugurated by welcoming all the dignitaries, Principal, HOD's of all departments and staff members of all departments, students and NSS volunteers.





- On 27th November 2024, the NSS wing of KSIT organized the Constitution Day celebration in the college. The event witnessed the esteemed presence of Dr. KVA Balaji, CEO of KSGI; Mr. Naveen V, NSS Program Officer; Heads of all departments, faculty members, students, and NSS volunteers.

- On 30th November 2024, a Drug Awareness Program (Drugs Muktha Bangalore) was organized by the Talagattapura Police Station in collaboration with Smitham NGO at Avalahalli, Konanakunte.



- The institution in association with NSS unit organized **World Meditation Day** at college premises on 20th December 2024.

# FIRST YEAR B.E ORIENTATION PROGRAM

The inauguration ceremony for the First Year Bachelor of Engineering (BE) students was held on 30.09.2024 at Quadrangle old building, KSIT campus. This event marked the official start of the academic journey for the incoming batch of BE students. The purpose of the event was to introduce the students to the university culture, academic expectations, and provide insights into the path ahead.
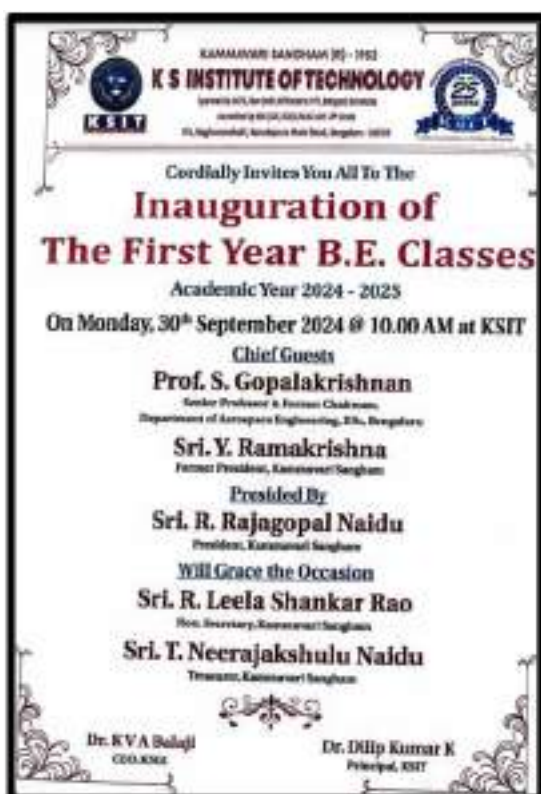
**CHIEF GUESTS**:
1. Prof. S Gopalakrishnan, SeniorProfessor & Former Chairman, Department of Aerospace Engineering, IISc, Bengaluru.

2. Sri Y Ramakrishna, FormerPresident, Kammavari Sangham



KEY TAKEAWAYS FROM THE CEREMONY:
 Introduction to College Life: Students were made familiar with the university's code of conduct, academic policies, and the resources available to support their learning journey. They were also given an overview of the industry-aligned curriculum and upcoming events like technical fests, workshops, and internships.

# GRADUATION DAY

- Graduation day is a memorable event in a student's life as it marks the celebration of their achievements so far and marks the beginning of a wonderful journey ahead. As Eleanor Roosevelt rightly said, "The FUTURE belongs to those who BELIEVE in the beauty of their DREAMS", it is the time for students' to realise their dreams, goals and march on to achieve them with faith and belief.
- K.S Institute of Technology (KSIT), Bengaluru organized graduation day ceremony at KSSEM Campus on 28th September, 2024 at 10:00 AM for the graduates of batch 2020-2024.
- The Chief guest Prof. Y Narahari, Hon'ble, Honorary Professor, Department of Computer Science & Automation, IISc, with management committee members including our Honourable Secretary Sri. R. Leela Shankar Rao, President Sri. R. Rajagopal Naidu, Treasurer Sri. T. Neerajakshulu Naidu, CEO Dr. K. V. A. Balaji, Principal & Director-Dr. Dilip Kumar K, HOD CSE- Dr. Rekha. B. Venkatapura, ECE-Dr. P. N. Sudha, ME- Dr. M. Girish T R, CCE- Dr. Chanda V Reddy, AI&ML- Dr. Suresh, CS&D-Dr.Deepa S R, BS&H-Dr.Jalaja P, Dr. Kiran Kumar S R, Controller of Examination-Dr. Umashankar M, Placement officer-Dr.Harish R, Director Admission & Public Relation-Dr.Sangappa S B and all HoD's of KSSEM entered the Graduation arena in procession.

## Graduation Day Procession

# DEPARTMENT OF PHYSICAL EDUCATION & SPORTS

KS institute of technology, Department of Physical Education & Sports is a cell of major activity in the Campus. Visvesvaraya Technological University (VTU, Belagavi). The Department of Physical Education & Sports is well equipped with modern infrastructure and conducts activities like Basketball, Volleyball, Badminton, Table Tennis, Cricket, Handball, Football, Netball, Chess, and Athletics.

## ABOUT THE DEPARTMENT :

**Mr. Umesh S**
Physical Education
Director

Physical education is an integral part of the total education. Quality physical education programs help all students develop health-related fitness, physical competence.cogn tive understanding, and positive attitude about physical activity, so that they can adopt healthy and physically active lifestyles. The department of Physical Education at The Kammavari Sangham Institute of Technology aims at such activities which helps the students develop a holistic approach. The students have participated in many various tournaments conducted by V.T.U, all India universities, district, state & national events and have brought laurels to their institution. We are proud to be one amongst the 10 College of VTU to Received Meritorious institutions Cash Award of 1 Lakh for sports achievement for the academic year 2015-16 in VTU sports.

## List of Sports Activities & Achievements from June – Dec 2024

| Sl. No. | Tournament/Competition | Held at | Date | No. of Students | Inter National /National/State/ University /Zonal | Achievement |
|---|---|---|---|---|---|---|
| 1 | Taekwondo (M) | GAT Bengaluru | 21$^{st}$ & 22$^{nd}$ June 2024 | 01 | VTU State Level | Tirumala Ganesh Bharadwaj Sharma, 4$^{th}$ sem ECE ,Secured Bronze Medal in above 87Kg Category |
| 2 | 25$^{th}$VTU Athletic Meet (M & W) | VTU Mysuru Regional Center Mysuru | 26$^{th}$ to 29$^{th}$ June 2024 | 14 | VTU State Level | Participated |
| 3 | Table Tennis (M) | SJBIT, Bangalore | 2$^{nd}$ & 3$^{rd}$ July 2024 | 05 | VTU Bangalore South Division | Participated |
| 4 | Table Tennis Selections | VVCE Mysuru | 19$^{th}$ & 20$^{th}$ July 2024 | 01 | VTU Team Table Tennis Selections | Participated |
| 5 | Badminton (M & W) | RVITM, Bengaluru, | 8$^{th}$ & 9$^{th}$ July 2024 | 10 | VTU Bangalore South Division | Participated |
| 6 | Chess (M & W) | BMSCE, Bengaluru, | 16$^{th}$ & 17$^{th}$ July 2024 | 10 | VTU Bangalore South Division | Participated |
| 7 | Yoga (M & W) | Akshaya IT, Tumakuru | 23$^{rd}$ & 24$^{th}$ Septe 2024 | 04 | VTU State Level | Participated |
| 8 | Ball Badminton (W) | GSSSIEW , Mysore , | 3$^{rd}$ & 4$^{th}$ Oct 2024 | 02 | VTU Ball Badminton Team Selections Trails | Participated |
| 9 | Cricket (M) | SJBIT, Bangalore | 6$^{th}$ to 20$^{th}$ Oct 2024 | 16 | VTU Bangalore South Division | Participated |

| | | | | | | |
|---|---|---|---|---|---|---|
| 10 | Kho-Kho (M) | RRCE, Bangalore | 4th & 5th Oct 2024 | 12 | VTU Bangalore South Division | Participated |
| 11 | Kabaddi (M) | Sairam CE Anekal | 19th & 20th Octo 2024 | 12 | VTU Bangalore South Division | Participated |
| 12 | Kabaddi (W) | RRCE, Bangalore | 15th & 16th Nove 2024 | 12 | VTU Bangalore South Division | Our College Team Qualified For Semi Finalist |
| 13 | Kabaddi (W) | RRCE, Bangalore | 19th to 21st Nove 2024 | 01 | VTU Kabaddi (W) Team Selections Trails | Participated |
| 14 | Volleyball (M) | ACSCE, Bangalore | 22nd to 23rd Nove 2024 | 12 | VTU Bangalore South Division | Participated |
| 15 | The South Zone Inter University VTU Kabaddi (Women) Tournament 2024-25 | Alagappa University Karaikudi (TN) | 24th November to 2nd December 2024 | 01 | The South Zone Inter University Tournament | Abhilasha V 7th Sem CSE Represented VTU |
| 16 | The 62nd Nationals Roller Skating Championships (Inline hockey )2024 | Coimbatore | 5th to15th December 2023. | 01 | National / India | Pavithraa G, Department of CSD, Secured Bronze medal |
| 17 | The South Zone Inter University VTU Table Tennis ( Men ) | Vellore IT, Vellor , Tamil Nadu | 6th to 13th December 24 | 01 | The South Zone Inter University Tournament | Srikanth Kashyap 3rd Sem CSE Represented VTU |
| 18 | Throw ball (W) | JVIT ,Bidadi, | 12th &13thDec 2024 | 12 | VTU Bangalore South Division | Women's team Secured 2nd Place & qualified for State level Competition |
| 19 | 70th Senior Women National Championship | Kamothe Raygad (Maharashtra) | 26th to 29th December 24 | 01 | National Championship | 70th senior women national championship winners Karnataka |
| 20 | Criket Selections | SJBIT, Bangalore | 26th to 27th December 24 | 04 | VTU Bangalore South Division Selections | Vivek M S 5th sem ECE & , Vinay C D 5th sem ME got Selected for State level Cricket team selection which is going to be held at NMAMIT Nitte Mangalore on 3rd to 5th January 25 |
| 21 | Criket Selections | NMAMIT Nitte Mangalore | 3rd to 5th January 25 | | VTU Team Cricket (M) Selections | Participated |

# Sports Events/Achievements

- Vishnu Priya GS, 1KS23CM060, Department of CCE, Represented Ball Badminton Association of Karnataka, secured 3rd place in the 68th junior National level, Ball Badminton Championship held at Patliputra Sports Complex, Kankorbagh, Patna, Bihar from 10th to 14th March 2024.



- VTU, Intercollegiate State level Power lifting (M & W) Competition hele at VVCE, Mysore on 9th & 10th Jan 2023 our student Kushal MJ , 3rd CSD , 1KS21CG025 has Participated and he has lifted(Squat – 90Kgs , Bench Press –60 Kgs , & Dead Lift – 110 Kgs) 260Kgs up to 76 kg Weight category.



- VTU, Intercollegiate BengaluruDivision Kho-Kho tournament (W) held at GAT, Bengaluru on 30th & 31st Dec 2022 .Our College Students has taken part in this tournament.

- Participated in VTU , State level Athletic Meet held at VTU, Belagavi from 20th to 24th May 2023



- VTU, Bangalore Southdivision Kabadditournament for men held at RRCE , Bangalore on 15th &16th Feb 2024. 1st match we won against RVITM and 2nd match played against ACSCE, Bangalore.



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- **VTU, Intercollegiate State level Cross-Country Event (M & W) held at Sairam College of Engineering , Anekalon 27th &28th Jan 2023 our collegestudent HARISH M.V , 1st sem ECE has participated in this event.**



- **Tirumala Ganesh Bharadwaj Sharma, 4thSem, ECE,1KS22EC108, Secured Bronze Medal(weight category above 87kg) in VTU State Level Inter CollegiateTaekwondo Competition 2024-25 on21st June 2024 at GAT Bengaluru.**



- **Tirumala Ganesh Bharadwaj Sharma, 3rd Sem, ECE,1KS22EC108, Secured Gold Medal in 6th National level Taekwondo championship (weight category above 87kg) was organised by VIFA Taekwondo trainingcenter held at Bangalore University Gymnasium hall, Bangalore on 27th and 28th January2024.**



- **Department of Physical Education and Sports organized the Annual Sports Day on 25th March 2023 at UCPE stadium, Jnana Bharathi Campus, Bangalore University, Bangalore. Individual championship secured Kushal Kadam, 6th Sem Mech & Sanjana V, 3rd Sem ECE . ECE Department Secured Overall champion ship.**

- Pavithraa G, Department of CSD, Secured Bronze medal in the 61st Nationals Roller Skating Championships (Inline hockey )2023 - held at Chandigarh from 13 to 22 December 2023.





- Participated in VTU Bangalore South Division Table Tennis Tournament (M &W) which was held at SJBIT, Bangalore on 2nd & 3rd July 2024.

- Participated in VTU State Level Inter Collegiate Yoga Competition 2024-25 on 23rd & 24th September 2024 at Akshaya IT Tumakuru.





- Participated in VTU Bengaluru Division Inter collegiate Chess (M&W) tournament at BMSCE, Bangalore on 16th&17th July2024.





- Participated in VTU Inter-Collegiate Bengaluru South Division Cricket Tournament 2024 – 2025. at SJBIT Bangalore on 8th to 20th October 2024

- **Participated in VTU Inter-Collegiate Bengaluru South Division Kho-Kho (M) Tournament 2024 – 2025. at RRCE Bangalore on 4th to 5th October 2024.**

- **Participated in VTU Inter-Collegiate Bengaluru South Division Kabaddi (M) Tournament 2024 – 2025. at Sairam CE Anekal on 19th to 20th October 2024.**





- **Pavithraa G, Department of CSD, secured Bronze medal in the 62nd National Roller Skating Championship (inline hockey) 2024 - held at Coimbatore from 5th to 15th December 2024.**





- **Abhilasha V of 7th Sem CSE Represented VTU Kabaddi (Women) Team in South Zone Inter-University Kabaddi Tournament 2024-25 held at Alagappa University Karaikudi (TN) Fromto 29th November 2024 to 2nd December 2024. Hence coaching camp will start from 24th to 28th November 2024 at RRCE Bengaluru.**

- **Participated in VTU Inter collegiate Volleyball (M) tournament at ACSCE, Bangalore on 19th & 20th November 2024.**



- **Srikanth Kashyap, 3rd Sem CSE , Represented VTU Table Tennis (Men) team in South Zone Inter University Championship 2024 held at Vellore IT, Vellor , Tamil Nadu.From 9th December 2024 to 13th December 2024. Hence coaching camp will start from 6th to 8th December 2024 at BMSIT Bengaluru.**




- **Our college Throw Ball (W) Team Runners Up in the VTU Bengaluru South Division Throw Ball Tournament 2024-25.on 12th & 13th December 2024 at JVIT Bidadi. Qualified for State level Competition.**




- **Vishnu Priya GS, 3rd Sem CCE, Represented Ball Badminton Association of Karnataka, Karnataka women's team as the Champions of 70th Senior National Ball Badminton Championship, organized by Maharashtra Ball Badminton Association under the auspicious of Ball Badminton Federation of India held from 26th to 29th of December at Kamothe , Raigad , Navi mumbai, Maharashtra.**

- **Vishnupriya 3rd Sem of CCE department as the Captain on team karnataka has won the 5th place and 2nd place in Mixed doubles in 69th junior national ball badminton Championship organized by Maharashtra Ball Badminton Association under the auspicious of Ball Badminton Federation of India held from 17th to 21th January 2025 at Devgram, Narkedh ,Nagpur ,Maharashtra.**

- **Participated in VTU Inter-Collegiate Bengaluru South Division Kabaddi (W) Tournament 2024 – 2025. at RRCE Bangalore on 15th to 16th November 2024.**



- **KSIT received VTU MERITORIOUS INSTITUTIONS Cash Award of 1 lakh for Sports Achievement for the Academic year 2021-22.**

# ANANYA 2K24

Ananya an annual cultural and technical fest organized by the students of K S Institute of Technology. The cultural activities enhance the confidence level of the students thereby allowing them to perform better. These activities develop the personality of the students and assist them in shaping a good career. In fact, students can also leverage the advantage of participating and conducting in various activities.

This year K.S INSTITUE OF TECHNOLOGY decided to have its annual fest ANANYA 2024 with the theme "VAIBHAVA".

The team of Ananya consists of chief co-ordinators, faculty co-ordinators and student coordinators named as core committee, various clubs and core volunteers without whose help, Ananya couldn't be a full fledged event. Their dedication towards the task and duties to meet the expectations for the much awaited event of Ananya was all worth to be successful.

The most awaited day for every individual was the final day, all the core committee members and the clubs came together to give a last bash of the event. The event was a fully fledged with a grand success. It was a lit in every one's eye. The moment of meeting their celebrity Renowned Actress Mrs.VRUSHA PATIL was the Chief Guest of ANANYA 2023. The Inauguration program started at 9.00 am in the morning with chief guest, Management, CEO, Principal, Chief Coordinator and Student core coordinators.

The program went on with all the events scheduled there onwards till grooving to the DJ night, the efforts was all worth the end.

# NISVAARTH 5K MARATHON

IEEE KSIT SB, WIE KSIT and SPS KSIT in association with the Department of Electronics and Communication organized a 5K Run NISVAARTH on 15/6/2024. The event was graced by the President Sri R Rajagopal Naidu, Secretary Sri R Leela Sankar Rao and Treasurer Sri T Neerajakshulu Naidu of KSGI, Dr. Dilip Kumar K, Principal KSIT, Heads of Departments and faculties.



The run started from KSIT for 5kms, with 5 stalls in total, at every 1km. Each stall was provisioned with glucose, water, and first-aid kits, to boost the runners and to assist them throughout the run. After a successful completion of the marathon, buses were arranged for the runners to bring them back to the college. Once all the participants returned to the college, breakfast was offered to all.

Further, in the presence of our principal, HOD and other privileged staff and people, the winners and runners of the marathon were awarded with the medals and certificates. All the enthusiastic participants were presented e-participation certificates and medals for their successful completion of the 5k marathon.

# ALUMNI MEET

Alumni meet was organized on 24th February 2024 in KSIT Quadrangle at 4:30 PM and around 600 Alumni students participated in the event. Mr. Jayshankar N alumni of 2003 ,Competency Manager, Adobe was Chief Guest and Mr. Vinay Kashyap Simha, Actor Alumni Of 2016, was the guest of honor of the function. The Alumni function was Presided By Sri. R. Rajagopal Naidu President, Kammavari Sangham.Sri. R. Leela Shankar Rao Hon. Secretary, Kammavari Sangham Sri. T. Neerajakshulu Naidu Treasurer, Kammavari Sangham Dr. K.V.A. Balaji CEO, KSGI grace the occasion.



Dignitaries on the dais



Dignitaries lighting the lamp



Felicitation to chief guest and guest of honor

# EDITORIAL TEAM

EDITOR IN CHIEF:             Dr. Dilip Kumar K (Principal)

CHIEF CO-ORDINATOR & EDITOR: Ms. Anuradha MV (AS&H)

STUDENT CHIEF CO-ORDINATOR & EDITOR : Gurushankara M (ECE)

FACULTY CO-ORDINATORS:   Dr. Sahana Salagere (AIML)
                          Dr. Surekha Byakod (CSD)
                          Ms. Namya Priya, Ms.Roopashri(CSE)
                          Ms. Rachana V Murthy (IOT)
                          Ms. Naga Jyothi T (CCE)
                          Ms. Sangeetha V, Ms. Ramya K R (ECE)
                         Dr.Harish  (ME)

STUDENT CO-ORDINATORS:   Abhijith R ,   P R Prajwal Kumar ,
                          Apoorva N Gowda ,Nagendra  Hegde (ECE)
                          Varun Sai V , Srinidhi M (CSE)
                          Chaitra S, Bhoomika K,Ramanuja U.K (AIML)
                          Disha A, Brinda S (CCE)
                          Tejas Gowda N,P Shroumith Simha(CSE ICB)
                          Srinidhi N (CSD)
                          Harshith H (ME)