



KAMMAVARI SANGAM- 1952

# **K S Institute of Technology**

#14, Raghuvanahalli, Kanakapura Road, Bengaluru 560109  
(Affiliated to VTU, Belagavi, Approved by NBA-  
CSE,ECE & ME and NAAC)

## **CS GYANBYTES**

**Department of Computer Science and  
Engineering Newsletter**

### **Vision**

*To create competent professionals in Computer Science and Engineering with adequate skills to drive the IT Industry*

### **Mission**

- 1. Impart sound technical knowledge and quest for continuous learning.*
- 2. To equip students to furnish Computer Applications for the society through experimental learning and research with professional ethics.*
- 3. Encourage teamwork through inter-disciplinary projects and evolve as leaders with social concerns*

**Volume 8, Issue 2**

**July 2022- December 2022**

# **Program Educational Objectives**

**PEO 1: Excel in professional career by acquiring knowledge in cutting edge technology and contribute to the society as an excellent employee or as an entrepreneur in the field of Computer Science & Engineering.**

**PEO 2: Continuously enhance their knowledge on par with the development in IT industry and pursue higher studies in Computer Science & Engineering.**

**PEO 3: Exhibit professionalism, cultural awareness, team work, ethics, and effective communication skills with their knowledge in solving social and environmental problems by applying computer technology.**



**Sri. R. Rajagopal Naidu**  
President



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



**Sri. T. Neerajakshulu Naidu**  
Treasurer



**Dr. K. V. A. Balaji**  
CEO, KSGI

At KSIT, We strongly believe in the overall development of our students with adequate social responsibility and sensitivity. I am very happy that the Department of Computer Science and Engineering have been very successful in spotting the talents in our students and harnessing them and enabling our students to learn content beyond the syllabus through experiential learning from various live and ongoing projects that are present in our institution. All their efforts and learning are being showcased in this newsletter “CS-GYANBYTES”. I wish the staff and our talented students the very best in both their professional and personal lives.



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

At KSIT, We offer a professional educational experience through various teaching methodologies. By the time the students are graduated, they will be confidence in facing the society being the professional or the personal life. Life on campus is both enriching and exciting. We have excellent infrastructure offering spacious labs, classrooms, research centers, library, indoor play area, transport and hostel facilities. Broaden your network and enjoy your time in KSIT by participating in Co-curricular activities, which span from Interest groups to clubs, to nurture your creativity and passion. Wishing you all a good luck.

*Education is one thing no one can take away from you.*



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 an enormous support from the Department as well the Management. Students of CSE department are highly motivated and ready for IT Industry with hands on experience on current technologies/programming languages. KSIT is accredited by NAAC and Department of CSE accredited by NBA for 3 years(2021-2024). In VTU results, students are getting ranks and are working with reputed companies with higher salary packages. The students are actively participating in Hackathons and other coding contest at the International, National and State level and making their footprints. Our mission is to inculcate strong theoretical and practical knowledge for continuous learning and prepare students to find Computer solutions for the 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 standard to achieve academic excellence and provides platform for the students to achieve their career goals. Several patents have been filed by the department faculty. 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. The department preserves its achievements and I am excited to announce that our department newsletter “CS GYANBYTES” the volume 8 issue 2 is all set to release .

-Dr. Rekha B Venkatapur  
HOD

*To teach is to learn twice.*

# **NATIONAL CONFERENCE ON RECENT INNOVATIONS IN ENGINEERING - 2022**

Department of Computer Science and Engineering in association with VTU, BITES, CSI and ISTE organized a National Conference on “Recent Innovations in Engineering – 2022” on 23rd and 24th June 2023.

The Conference was inaugurated by the chief guest Dr. K. N. Balasubramanyam Murthy, Chairman, BITES accompanied 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, KSIGI, Dr. Dilip Kumar K, Principal/Director, K. S. Institute of Technology and Dr. Rekha B Venkatapur, Prof. and Head, Department of CSE, K. S. Institute of Technology, Faculty members and student participants.

Conference received Fifty-Seven papers from seven different colleges all over Karnataka.

Day 1: 23-06-2022

Session: 1

Track: Data Science

- Session Chair: Dr. Shaila S G, Professor and Chairperson Data Science Program, CSE, Dayanandasagar University, Bangalore.
- Eight papers were presented in this track. The Best paper award was given to the paper entitled “AI Based Dietician” from Dayanandasagar Academy of Technology and Management, Bangalore.



**Day 1: 23-06-2022**

**Session: 2**

**Track: Internet of Things**

**Session Chair: Dr. Amitha J, Professor and Head, Dept. of CSE, RVMIT, Bangalore.**

- **Nine papers were presented in this track. The best paper award was given to the paper entitled “Protection of Forest Trees Against Poaching Based on IoT” from K. S. Institute of Technology, Bangalore.**



**Day 1: 23-06-2022**

**Session: 3**

**Track: Data Science**

- **Session Chair: Dr. Shaila S G, Professor and Chairperson Data Science Program, CSE, Dayanandasagar University, Bangalore.**
- **Seven papers were presented in this track. The best paper award was given to the paper entitled “Bird Species Identification” from K. S. Institute of Technology, Bangalore.**



*Slow success builds character. Fast success builds ego*

**Day 2: 24-06-2022**

**Session: 1**

**Track: Software Engineering**

- **Session Chair: Dr. Kumar B I D, Professor and Head, Dept. of CSE, APSCE, Bangalore.**
- **Seven papers were presented in this track. The best paper award was given to the paper entitled “Chrome Extension for Dropdown Code Editor” from K. S. Institute of Technology, Bangalore.**



**Day 2: 24-06-2022**

**Session: 2**

**Track: Cyber security and Blockchain**

- **Session Chair: Dr. Hemavathy R, Associate Professor, Dept. of CSE, RVCE, Bangalore.**
- **Eight papers were presented in this track. The best paper award was given to the paper entitled “Morse Code Security” from K. S. Institute of Technology, Bangalore.**



**Day 2: 24-06-2022**

**Session: 3**

**Track: Image Processing and Computer Vision and Cyber Security and Blockchain**

- **Session Chair: Dr. Sneha Girish, Freelancer, Mentor at Great Learning.**
- **Eight papers were presented in this track. The best paper award was given to the paper entitled “Human Dermis Cancer Detection” from K. S. Institute of Technology, Bangalore.**



**Day 2: 24-06-2022**

**Session: 4**

**Track: Networking and Data Science**

- **Session Chair: Dr. Nandini, Vice Principal, Professor and Head, CSE, DSATM, Bangalore.**
- **Nine papers were presented in this track. The best paper award was given to the paper entitled “Classification and Detection of Diabetic Retinopathy using Deep Learning with Eye Fundus Image” from G. S. K. S. J. I. T.**



*Always Imagine the best outcome and feel it*



# MEMORANDAUM OF UNDERSTANDING

- MOU between Rubixe and KSIT was signed on 22nd Sept 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.

## EVENTS CONDUCTED

- The Department of Computer Science and Engineering in association with KSIT-CSE-Firefox Club organized Non-Technical Event “SYNERGY” 16th Dec 2022.



- The Department of Computer Science and Engineering in association with AICTE SPICES and IEI organized a technical Talk “UI UX Design” on 25th Nov 2022.



- The Department of Computer Science and Engineering organized an industrial visit “Bangalore Tech Summit” for 3rd semester students on 17th Nov 2022.
- The Department of Computer Science and Engineering in association with IIIC organized the seminar “UX Design and UI Web Development” on 7th Nov 2022.



- The Department of Computer Science and Engineering in association with AICTE SPICES organized the Innovation talk “How to Innovate” on 3rd and 4th Nov 2022.



- The Department of Computer Science and Engineering in association with IEI organized 3 Days Faculty Development Program “C Programming Laboratory” on 27th to 29th Oct 2022.



- The Department of Computer Science and Engineering in association with KSIT-NSS organized Yoga Event “Science of Meditation” for 3rd semester Students on 19th Oct 2022.



- The Department of Computer Science and Engineering organized Internship “Internal Internship on Object Oriented Programming with Java” for 3rd semester students on 17th to 21st Oct 2022.



- The Department of Computer Science and Engineering in association with AICTE-SPICES and CSI organized workshop “Application of IoT using Blynk and Google Fire Cloud” for 5th semester students on 15th and 16th Oct 2022.



- The Department of Computer Science and Engineering in association with KSCST, AICTE-SPICES and CSI organized an Awareness program on IPR “IPR Tools for Engineering Students” on 30th Sept 2022.



- The Department of Computer Science and Engineering in association with KSIT ED Cell organized Technical Talk “Engineering Career and Industry Outlook” for 3rd semester students on 13th Aug 2022.



## **EVENTS ATTENDED BY FACULTY**

- Mr. Krishna Gudi attended Five Days Faculty Development Programme on “Entrepreneurship Development” at KSSEM, Bengaluru on 12th to 16th Dec 2022.
- Dr. Rekha B Venkatapur attended a Five Days Faculty Development Programme on “Advanced Tools and Techniques for Best Research” at RVITM, Bengaluru on 26th to 29th Sept 2022.
- Mr. Somasekhar T attended a Five Days Faculty Development Programme on “Advanced Tools and Techniques for Best Research” at RVITM, Bengaluru on 26th to 29th Sept 2022.
- Dr. Rekha B Venkatapur attended a Five Days Faculty Development Programme on “Intellectual Property Rights” at JSSATE, Bengaluru on 12th to 16th Sept 2022.
- Dr. Deepa S R attended Five Days Faculty Development Programme on “Developing and Deploying Spring Boot Microservices” at Ramaiah Institute of Technology on 22nd to 26th August 2022.
- Dr. Vaneeta M attended Five Days Faculty Development Programme on “Developing and Deploying Spring Boot Microservices” at Ramaiah Institute of Technology on 22nd to 26th August 2022.
- Mrs. Geetha R attended Six Days Faculty Development Programme on “Amazon Webb Services” at RVITM, Bangalore on 22nd to 27th August 2022.
- Dr. Rekha B Venkatapur attended a webinar on “Innovation and Entrepreneurship” at Dr. Babasaheb Ambedkar Marathwada University, Aurangabad on 20th Aug 2022.

## **PUBLICATIONS BY FACULTY**

- Dr. Rekha B Venkatapur “Deep Learning Technique for Object detection from panoramic video frames” International Journal of Computer theory & Engineering, Vol 14, Issue 1, PP- 20-26, Nov 2022.

# ACHIEVEMENTS BY FACULTY

## PAPER REVIEWER / SESSION CHAIR

- Dr. Rekha B Venkatapur, Reviewer for “4th IEEE International Conference on CCIP-2022” at JSSATE from 23rd and 24th Dec 2022.
- Dr. Rekha B Venkatapur, Reviewer for “2nd International Conference on Innovative Sustainable Computational Technologies (CISCT-2022)” at Graphic Era University from 23rd and 24th Dec 2022.
- Dr. Vijayalaxmi Mekali, Reviewer for “4th IEEE International Conference on CCIP-2022” at JSSATE from 23rd and 24th Dec 2022.
- Dr. Vijayalaxmi Mekali Reviewer for "Routing Protocols in Wireless Body Area Networks: Architecture, Challenges and Classification", Wireless Communications and Mobile Computing, Journal Hindawi, November 2022.
- Dr. Rekha B Venkatapur, Invited as Session Chair for “3rd Congress on Intelligent Systems International Conference CIS 2022” at Christ, Bangalore on 5th and 6th Sept 2022.

## RECOGNITION

- Dr. H S Prasantha is Editorial Board Member of “Journal on Image Processing”  
1- Manager Publication 2022.

## ACHIEVEMENTS BY STUDENTS

- Aakriti, Winner with cash price Rs. 5000 of the event “Smart Engineering for a Better World” organized by The Institution of Engineers(India), Karnataka State Centre on 15th Sept 2022.
- Goutham M, Nikitha M, Kruthika S Vasisht, Ashwini J, Srividya H R, Puvan Kumar V, Winners of the event “Smart India Hackathon” organized by Ministry of Education Innovation Cell and All India Council for Technical Education, Combatore, Tamil Nadu on 25th and 26th Aug 2022.



- **Satish V, G Preritha, Amrutha K H, Kothapalli Sreeja, Kavya Shree S L, Keerthan Gowda S** Winners of the event “Smart India Hackathon” organized by Ministry of Education Innovation Cell and All India Council for Technical Education, Hyderabad, Telangana on 25th and 26th Aug 2022.



- **Pranav M S, Raksha S, Naveen K M, Shashank Mishra R V, Yashwanth, Vijay N S, First Runner up** of the event “Smart India Hackathon” organized by Ministry of Education Innovation Cell and All India Council for Technical Education, Bhopal, Madhya Pradesh on 25th and 26th Aug 2022.



*Things do not happen. Things are made to happen.*

## RESEARCH ACTIVITIES

- Mr. Raghavendrachar S has been completed Research Review Meeting 4 for the Thesis Titled “Unsupervised Auto Encoder based detection of nutrition deficiency in Indian mulberry leaves” carried out under Research Supervision Dr. Rekha B Venkatapur in R and D centre, Department of Computer Science and Engineering, K. S Institute of Technology, Bengaluru.
- Mr. M Shanmugam Shoba has been completed Research Review Meeting 4 for the Thesis Titled “An Enhancement For Quantum Resistant Blockchain Through Post Quantum Digital Signature Scheme” carried out under Research Supervision Dr. Rekha B Venkatapur in R and D centre, Department of Computer Science and Engineering, K. S Institute of Technology, Bengaluru.
- Mr. T Somasekhar has been completed Open Seminar 1 for the Thesis Titled “Quality Assessment System for Air Pollution Control in India through Calibration and Machine Learning Algorithm” carried out under Research Supervision Dr. Rekha B Venkatapur in R and D center, Department of Computer Science and Engineering, K. S Institute of Technology, Bengaluru.
- Ms. Daneshwari A Noola has been completed Open Seminar 2 for the Thesis Titled “Techniques for Disease Identification in Red Gram Crop using Image Processing” carried out under Research Supervision Dr. Dayananda in R and D center, Department of Computer Science and Engineering, K. S Institute of Technology, Bengaluru.

## FUNDED PROJECTS

- The project titled “Tamper-Proof Air Quality Management System” carried out by final year students Ms. Ashwini J, Ms. Kruthika S Vasisht, Ms. Nikitha M and Ms. Srividya H R under the guidance of Dr. Vaneeta M was selected for KSCST of Rs. 2500.



# 100% RESULTS

|         |                        |                    |
|---------|------------------------|--------------------|
| 18CS72  | BIG DATA ANALYTICS     | Mrs. GEETHA R      |
| 18CS734 | USER INTERFACE DESIGN  | Mrs. PALLAVI K N   |
| 18CS734 | USER INTERFACE DESIGN  | Mr. KRISHNA GUDI   |
| 18ME751 | ENERGY AND ENVIRONMENT | Mr. PARASHURAM A K |

## TOPPERS

| VII SEMESTER TOPPERS LIST |            |            |       |
|---------------------------|------------|------------|-------|
| 1                         | 1KS19CS019 | BHUMIKA M  | 90.4% |
| 2                         | 1KS19CS055 | MYTHREYI U | 90.2% |
| 3                         | 1KS19CS015 | AQSA AQEEL | 88.1% |

| V SEM TOPPERS LIST |            |                     |       |
|--------------------|------------|---------------------|-------|
| 1                  | 1KS20CS094 | SIRIPIREDDY THULASI | 86.3% |
| 2                  | 1KS20CS058 | N KEERTHANA         | 85.6% |
| 3                  | 1KS20CS029 | GAGANA R            | 85.3% |

# ALUMNI INTERVIEW



**Name:** Abhijith Ravikumar

**Job Role & Company :** General Manager,  
Wired Mode

**Place:** Bangalore

**Graduated Year:**2013

## How do you manage time and set priorities?

When it comes to managing time and setting priorities, there are a few key strategies that can help. First, it's important to start by creating a to-do list that outlines all of the tasks you need to accomplish. This will give you a clear overview of what needs to be done, and it can help you prioritize your tasks by importance or deadline. Once you have your to-do list, the next step is to schedule your time effectively.

Another important aspect of time management is learning to say "no" to tasks or requests that are not a priority. This can be difficult, but it's essential for maintaining control over your time and ensuring that you're able to focus on the most important tasks.

## How do you plan to achieve your ambition and goals in life?

When it comes to achieving ambitious goals, the key is to have a clear plan in place. This might involve setting specific, measurable, attainable, relevant, and time-bound (SMART) goals, which can help you to break down your larger goal into smaller, more manageable steps.

It's also important to stay flexible and adaptable as you work towards your goals. Life is unpredictable, and there will be obstacles and challenges along the way. By staying flexible and open to new opportunities, you can find creative solutions and keep moving forward towards your goals.

Overall, the key to achieving ambitious goals is to have a clear plan, stay organized and focused, and be willing to adapt and adjust your plan as needed. By working towards your goals in a focused and determined way, you can achieve great things.

*Things do not happen. Things are made to happen.*

### Share your experience of working as your job role?

As a general manager in my current organization, there are many skills and knowledge areas that you might hope to learn or improve upon. Some possible areas of focus could include:

**Leadership and management:** As a general manager, you will likely be responsible for leading and managing a team of employees, and you will need to have strong interpersonal and communication skills to effectively manage and motivate your team.

**Financial management:** As a general manager, you will likely be responsible for overseeing the financial performance of your organization, and you will need to have a strong understanding of financial principles and practices to make informed decisions.

**Strategic planning:** As a general manager, you will need to be able to develop and implement long-term plans for your organization, taking into account factors such as market trends, competition, and the overall goals of your organization.

### What attitude do you need to become successful?

**A positive attitude:** Having a positive attitude can help you to stay motivated and focused, even when you are faced with challenges or setbacks. By focusing on the possibilities and opportunities that are available to you, rather than the limitations and obstacles, you can stay energized and optimistic as you work towards your goals.

**A growth mindset:** Having a growth mindset means that you believe that your abilities and potential are not fixed, but can be developed and improved through effort and learning. This can help you to be open to new experiences and challenges, and to be willing to take risks and learn from your mistakes.

**A determination to succeed:** Ultimately, the key to success is to be determined and focused on achieving your goals. This means setting clear goals, developing a plan of action, and working hard and consistently towards those goals. By staying determined and committed, you can overcome obstacles and achieve success.

### Tell me about your college life.

In today's fast-paced world, it can be easy to get caught up in the present and to forget about the past. But for many people, college is a time of learning, growth, and discovery that can have a lasting impact on their lives. Cherishing the memories and experiences of college can provide a sense of nostalgia and fulfillment, and it can help to keep those memories alive.

As a student, college life was a rollercoaster of emotions and experiences. There are the highs of making new friends, exploring new interests, and achieving academic success.

*An investment in knowledge pays the best interest.*



**Editorial Committee**  
**Dr. Vijayalaxmi Mekali**  
**Mrs. Pallavi K N**  
**Mrs. Rashmi H**

**Student Committee**  
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