



**KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE,WARANGAL**  
( Accredited by NAAC with 'A' Grade )  
( An Autonomous Institute under Kakatiya University )

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (Networks)**

# CSNIPER

NEWS LETTER



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## VIEWS



It gives me immense pleasure that the Department of Computer Science and Engineering (Networks) is coming up with their second issue of their newsletter “SNIPER”. I appreciate the enthusiastic effort made by the Editorial board, staff and the students to bring out this issue and all the hard work they put in. We believe in working hard to foster a culture that is always focused on doing what is best for students and ensuring that they have a positive educational experience that will transform them into good engineers and good human beings.

**Dr. K. Ashoka Reddy**  
Principal, KITSW



We are elated to release the second issue of newsletter of Department of Computer Science and Engineering (Networks), January 2025. In our newsletters, we periodically publish all the important events, activities of the students and faculty. The unique feature of this newsletter is that its designed and developed by our students. I thank all contributors including faculty, staff members and students for their valuable inputs.

**Dr. V. Shankar**  
Professor  
Head of the department CSE(N)

## EDITORIAL BOARD

Chief Editor: **Dr. V. Shankar** Professor, Head of the department CSE(N)

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**P. Priyanka**  
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# VIEWS



**KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE , WARANGAL**  
(An Autonomous Institute under Kakatiya University, Warangal)  
(Accredited by NAAC with 'A' Grade)

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (Networks)**

## VISION

Attaining centre of excellence status in various fields of Computer Science and Engineering (Networks) by offering worth full education, training and research to improve quality of software services for ever growing needs of the industry and society.

## MISSION

- Practice qualitative approach and standards to provide students better understanding and profound knowledge in the fundamentals and concepts of computer science with its allied disciplines.
- Motivate students in continuous learning to enhance their technical, communicational, and managerial skills to make them competent and cope with the latest trends, technologies, and improvements in computer science to have a successful career with professional ethics.
- Involve students in analyze, design and experimenting with contemporary research problems in computer science to impact socio-economic, political and environmental aspects of the globe.

## **COURSES OFFERED**

### **B.Tech. Computer Science & Engineering (Networks)**

Scheme of Instruction and Evaluation under URR-18 for 2021 Admitted Batch, for 2019, 2020 Admitted Batches

Syllabus under URR-18

### **B.Tech. - Computer Science & Engineering (IoT)**

Scheme of Instruction and Evaluation under URR-18 for 2021 Admitted Batch, for 2020 Admitted Batch

Syllabus under URR-18

## Program Educational Objectives (PEOs): B.Tech

**PEO1: Technical Expertise**, apply the fundamental knowledge of the core courses of computer science and networks for developing the effective software and network technology solutions

**PEO2: Successful Career excel in profession**, higher education and entrepreneurship with updated technologies in software, computer networks and security based domains

**PEO3: Soft Skills and Life Long Learning**, exhibit professional ethics, effective communication and team work in solving engineering problems by adapting contemporary research towards sustainable development of society

## Program Specific Outcomes (PSOs): B.Tech

### PSO1

Apply the fundamental knowledge of computer science and engineering in developing effective software for real world complex engineering problems adapting advanced technologies

### PSO2

Design computer networks protocols and configure solutions for various network applications using contemporary hardware and software tools

### PSO3

Implement effective securities standards and investigate efficiency of existing security measures by continuous adaptation of latest updates in cyber security domains

## Program Outcomes (POs): B.Tech

**PO1:Engineering Knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

**PO2:Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.



**PO3:Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

**PO4:Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

**PO5:Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

**PO6:The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

**PO7:Environment and sustainability :** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

**PO8:Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

**PO9:Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

**PO10:Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

**PO11: Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

**PO12:Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

# LIST OF FACULTY

## Department of Computer Science & Engineering(Networks)

Head of the  
Department  
(w.e.f: 05.01.2022)

Dr.V.Shankar  
Professor

| S.NO | Name                       | Qualification<br>(specialization) | Designation /<br>Affiliation | Research Area                    | Email ID                    |
|------|----------------------------|-----------------------------------|------------------------------|----------------------------------|-----------------------------|
| 1.   | Dr. V.Shankar              | Ph.D.                             | Professor                    | Data Mining                      | vs.csn@kitsw.ac.in          |
| 2.   | Dr.S.<br>Venkatramulu      | Ph.D.                             | Associate Professor          | Network<br>Security              | svr.csn@kitsw.ac.in,        |
| 3.   | Dr.V.Chandra<br>Shekar Rao | Ph.D                              | Associate Professor          | Datamining                       | vcsrao.csn@<br>kitsw.ac.in  |
| 4.   | Dr. V. Swathy              | Ph.D                              | Associate Professor          | Software Engineering             | vst.csn@kitsw.ac.in         |
| 5.   | Dr. B.Sridhara<br>Murthy   | M.Tech.                           | Assistant Professor          | ComputerScie nce<br>&Engineering | bsm.csn@kitsw.ac.in         |
| 6.   | Dr.DorthiKumar             | Ph.D.                             | Assistant Professor          | IoTandML                         | drkumar.csn@<br>kitsw.ac.in |
| 7.   | Dr.A. Godavari             | Ph.D                              | Assistant Professor          | Cloud<br>Computing               | ag.csn@kitsw.ac.in          |
| 8.   | Sri.D. Ramesh              | M.Tech.                           | Assistant Professor          | Computer Networks                | dr.csn@kitsw.ac.in          |
| 9.   | Mrs. T. Anusha             | Ph.D                              | Assistant Professor          | Internet of Things<br>(IoT)      | anusha.csn@<br>kitsw.ac.in  |

## LIST OF FACULTY

| S.NO | Name                    | Qualification<br>(specialization) | Designation /<br>Affiliation | Research Area                         | Email ID                   |
|------|-------------------------|-----------------------------------|------------------------------|---------------------------------------|----------------------------|
| 10.  | Smt. K.Shirisha         | M.Tech., (Ph.D)                   | Assistant Professor          | Internet of Things                    | ks.csn@kitsw.ac.in         |
| 11.  | Mrs. T. Sruthi          | M.Tech.                           | Assistant Professor          | Internet of Things(IoT)               | sruthi.csn@<br>kitsw.ac.in |
| 12.  | Dr.Ch.Jayanth<br>Babu   | Ph.D                              | Assistant Professor          | NetworkSecurity<br>& cryptography     | cjb.csn@kitsw.ac.in        |
| 13.  | SriK.Ravikanth          | M.Tech                            | Assistant Professor          | Blockchain&<br>distributed Technology | krk.csn@kitsw.ac.in        |
| 14.  | Smt.M.Susmitha          | M.Tech.                           | Assistant Professor          | Networks                              | sm.csn@kitsw.ac.in         |
| 15.  | Smt.P.Priyanka          | M.Tech                            | Assistant Professor          | Networks                              | pp.csn@kitsw.ac.in         |
| 16.  | SriV. Srinivas          | M.Tech                            | Assistant Professor          | Networks                              | sv.csn@kitsw.ac.in         |
| 17.  | Smt.M.Shirisha          | M.Tech                            | Assistant Professor          | Data Mining,<br>Machine               | sm.csn@kitsw.ac.i n        |
| 18.  | Smt.M.Priya<br>darshini | M.Tech                            | Assistant Professor          | Cloud Computing                       | sd.csn@<br>kitsw.ac.in     |
| 19.  | S.Ravi                  | M.Tech.                           | Assistant Professor          | Networks                              | ravi.csn@<br>kitsw.ac.in   |

## LIST OF FACULTY

| S.NO | Name                 | Qualification<br>(specialization) | Designation /<br>Affiliation | Research Area                           | Email ID               |
|------|----------------------|-----------------------------------|------------------------------|-----------------------------------------|------------------------|
| 20.  | SriJ. Sathish        | M.Tech                            | Assistant Professor          | Networks                                | js.csn@kitsw.ac.in     |
| 21   | Smt.M.Soumya         | M.Tech.                           | Assistant Professor          | Machine Learning                        | ms.csn@kitsw.ac.in     |
| 22   | Sri.R.VijayKumar     | M.Tech                            | Assistant Professor          | Networks,Deep Learning,Machine Learning | rvk.csn@kitsw.ac.in    |
| 23   | Sri.Ch.Shiva Kumar   | M.Tech                            | Assistant Professor          | Network Security                        | csk.csn@kitsw.ac.in    |
| 24   | Smt.T. Sravanthi     | Ph.D                              | Assistant Professor          | InternetofThings, Deep Learning         | ts.csn@kitsw.ac.in     |
| 25   | Dr.B.V. Pranay kumar | M.Tech                            | Assistant Professor          | Machine Learning                        | pkbv.csn@kitsw.ac.in   |
| 26   | Smt.K.Spandana       | M.Tech                            | Assistant Professor          | Cloud Computing                         | ksp.csn@kitsw.ac.in    |
| 27   | Sri.T.Venkatesh      | M.Tech                            | Assistant Professor          | Machine Learning                        | tv.csn@kitsw.ac.in     |
| 28   | Sri.K.SaiRam         | M.Tech                            | Assistant Professor          | Internet of Things,                     | sk.csn@kitsw.ac.in     |
| 29   | Sri.L.Sujith Kumar   | M.Tech.                           | Assistant Professor          | Machine Learning                        | sujith.csn@kitsw.ac.in |

## LIST OF FACULTY

| S.NO | Name                      | Qualification<br>(specialization) | Designation /<br>Affiliation | Research Area        | Email ID            |
|------|---------------------------|-----------------------------------|------------------------------|----------------------|---------------------|
| 30.  | Smt.K.Shruthi             | M.Tech                            | Assistant Professor          | Software Engineering | ks.csn@kitsw.ac.in  |
| 31.  | Smt.Y.Soujanya Reddy      | M.Tech.                           | Assistant Professor          | Software Engineering | ysr.csn@kitsw.ac.in |
| 32.  | Smt.A.Nikhitha Rao        | M.Tech                            | Assistant Professor          | Software Engineering | anr.csn@kitsw.ac.in |
| 33.  | U. Swetha Reddy           | M.Tech                            | Assistant Professor          | Machine Learning     | usr.csn@kitsw.ac.in |
| 34.  | Ms. E. Vishnu Priya Reddy | M.Tech.                           | Assistant Professor          | IoT and ML           | evp.csn@kitsw.ac.in |

## FACULTY ACHIEVEMENTS

### Scopus Reasearch Papers

**Name of the faculty/faculties:** Dr. S. Venkatramulu

**Title of Paper:** Smart healthcare data protection and analysis through fuzzy-based cyber security

**Name of journal :** Journal of Environmental Protection and Ecology

**Year of publication :** Oct. 2024

**Link to the recognition in UGC enlistment of the Journal :**

[https://www.researchgate.net/profile/Tejesh-Reddy-Singasani/publication/384734042\\_SMART\\_HEALTHCARE\\_DATA\\_PROTECTION\\_AND\\_ANALYSIS\\_THROUGH\\_FUZZY-BASED\\_CYBER\\_SECURITY/links/6705943847611f6529110c5a/SMART-HEALTHCARE-DATA-PROTECTION-AND-ANALYSIS-THROUGH-FUZZY-BASED-CYBER-SECURITY.pdf](https://www.researchgate.net/profile/Tejesh-Reddy-Singasani/publication/384734042_SMART_HEALTHCARE_DATA_PROTECTION_AND_ANALYSIS_THROUGH_FUZZY-BASED_CYBER_SECURITY/links/6705943847611f6529110c5a/SMART-HEALTHCARE-DATA-PROTECTION-AND-ANALYSIS-THROUGH-FUZZY-BASED-CYBER-SECURITY.pdf)

**Name of the faculty/faculties:** D.A.Godavari

**Title of Paper:** Multi-Dimensional Machine Intelligence Technique on High Computational Data for Bigdata Analytics

**Name of journal :** International Journal of Electrical and Electronics Engineering,

**Year of publication :** Jun. 2024.

**Link to the recognition in UGC enlistment of the Journal :**

<https://doi.org/10.14445/23488379/ijeee-v11i6p110>

### Book Chapters

**Name of the faculty:** Dr. V. Shankar

**Book chapter name:** Machine learning models for iot botnet attack detection

**Book Name :** Artificial Intelligence and Internet of Things based Augmented Trends for Data Driven Systems

**Year of publication :** Oct. 2024.

**Link to the recognition in UGC enlistment of the Journal :**

<https://www.taylorfrancis.com/chapters/edit/10.1201/9781003497318-8/machine-learning-models-iot-botnet-attack-detection-shankar-nagaraju-sangepu-nandam-gayathri-chandra-pavani>

## SCI Reasearch Papers

**Name of the facultyt:** Dr. V. Shankar

**Title of Paper:** Crop Disease Detection by Deep Joint Segmentation and Hybrid Classification Model: A CAD-Based Agriculture Development System

**Name of journal :** phytopathology

**Year of publication :** Jan-2025

**Link to the recognition in UGC enlistment of the Journal :** <https://doi.org/10.1111/jph.70003>

**Name of the faculty:** Dr. Kumar Dorthi

**Title of Paper:** Comprehensive Literature Review of Vehicle License Plate Detection Methods

**Name of journal :** Traitement du signal

**Year of publication :** Jun. 2024

**Link to the recognition in UGC enlistment of the Journal :** <https://doi.org/10.18280/ts.410304>

**Name of the faculty:** Dr. V. Swathy

**Title of Paper:** Comprehensive Literature Review of Vehicle License Plate Detection Methods

**Name of journal :** Traitement du signal

**Year of publication :** Jun. 2024.

**Link to the recognition in UGC enlistment of the Journal :** <https://doi.org/10.18280/ts.410304>

## Book Chapters

**Name of the faculty:** Bejugama.Sridhara Murthy

**Title of the patent:** AI-Powered System for generating personalized learning materials in educational technology

**Patent Number:** 202441050141

**Year of publication :** 7/19/2024

**Link :** [https://drive.google.com/file/d/1dWIqiB9Q2VTS5w3Lh3VUD9JJ1BTa1ZcY/view?usp=drive\\_link](https://drive.google.com/file/d/1dWIqiB9Q2VTS5w3Lh3VUD9JJ1BTa1ZcY/view?usp=drive_link)



# STUDENTS ACHIEVEMENTS

## NASA Space App Challenge



### Name of the Students:

B23IN099 (M. Mourya Sai)

B23IN103 (O. Suhaas)

B23IN065 (G. Pranathi Reddy)

B23IN093 (V. Sahasra Siri)

### Title of the Article:

VISUALIZE SPACE SCIENCE

### About the Article :

Biological experiments in space generate vast amounts of data, often stored in bulk formats like Excel sheets. While this data holds immense scientific value, its sheer volume and complexity make it difficult to interpret and utilize effectively.

### Key Features:

1. Stress-Induced Changes (Rats)
2. Microgravity's Impact on the Cardiovascular System (Rats)
3. Fluid Redistribution (Rats)
4. Thermal Regulation in Space (Rats)

**Conclusion :** Integrating graphic representation, hardware sensors, and real-time testing of smart rings for rats enables precise monitoring of physiological changes in microgravity. This enhances scientific understanding and aids in developing countermeasures for long-duration space missions, bridging the gap between experimental models and human spaceflight.

## ARTICLES

**Name of the student:** Rasha Rehman

**Title of the Article :** Quantum-safe VPNs: The Future of Secure Communication

**About the Article:**As we advance into an era dominated by digital communication, the importance of secure data transmission has never been more critical. With the rise of quantum computing, traditional encryption methods face significant vulnerabilities, prompting the development of quantum-safe solutions. One such innovation is the Quantum-Safe VPN (Virtual Private Network), which promises to revolutionize secure communication.

By establishing a VPN, users can transmit data as if their device were directly connected to a private network, even they are physically remote.

**Key Features:**

1. **Strong Encryption:** These VPNs use advanced methods that are difficult for quantum computers to break, keeping our data safe.
2. **Better Privacy:** With quantum-safe encryption, it's much harder for hackers to access or read our communications.
3. **Easy to Use:** Many quantum-safe VPNs can easily fit into current existing systems, making it simple for organizations to upgrade their security.
4. **Prepared for the Future:** By adopting quantum-safe technology now, organizations can protect themselves against future threats from quantum computing.

**Conclusion:**

As we face new threats from quantum computing, in search of secure ways to communicate is essential. Quantum-safe VPNs offer a strong solution to protect our online data. By using these advanced tools, we can ensure that our information stays safe in a rapidly changing digital world.

## STUDENT CONFERENCES

**Name of the student:** Maloth Akshaya

**Title :** Predicting Types of Genetic Disorder-Multiple Classifiers Approach

**Year:** 2024

**Host institution/organization :** R P Sarathy Institute of Technology, Salem, India

**Title of the conference:** 3rd International Conference on Applied Artificial Intelligence and Computing (ICAAIC 2024)

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**Name of the student:** Laxmi Suryadevara

**Title :** Fog Computing for IoT: Prioritizing Response Time and Energy Efficiency in Application Placement

**Year:** 2024

**Host institution/organization :** Malla Reddy University, Hyderabad, India

**Title of the conference:** : 4th International conference on Intelligent Systems & Sustainable Computing “(ICISSC-2024”)

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