



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)



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), July 2024. 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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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. S.Narasimha Reddy
Associate Professor

S.NO	Name	Qualification (specialization)	Designation / Affiliation	Research Area	Email ID
1.	Dr. V.Shankar	Ph.D.	Professor	Data Mining	vs.csn@kitsw.ac.in
2.	Dr. S.Narasimha Reddy	Ph.D.	Associate Professor & Head	Computer Vision and Image Processing (AI & ML)	snr.csn@kitsw.ac.in, hod.csn@kitsw.ac.in
3.	Dr. A. Jothi Prabha	Ph.D	Associate Professor	Machine Learning and Deep Learning	ajp.csn@kitsw.ac.in
4.	Dr. V. Swathy	Ph.D	Associate Professor	Software Engineering	vst.csn@kitsw.ac.in
5.	Sri B. Srinivas	M.Tech., (Ph.D.)	Assistant Professor	Big Data Analytics	bs.csn@kitsw.ac.in
6.	Dr. B. Hanumanthu	Ph.D.	Assistant Professor	Data Analytics	bh.csn@kitsw.ac.in
7.	Sri I. Sai Rama Krishna	M.Tech(Ph.D)	Assistant Professor	Natural Language Processing	srk.csn@kitsw.ac.in
8.	Dr. Kumar Dorthi	Ph.D.	Assistant Professor	Wireless Sensor Network	drkumar.csn@kitsw.ac.in
9.	Dr. S. Kiran	Ph.D	Assistant Professor	Internet of Things	sk.csn@kitsw.ac.in

LIST OF FACULTY

S.NO	Name	Qualification (specialization)	Designation / Affiliation	Research Area	Email ID
10.	Dr. A. Godavari	Ph.D	Assistant Professor	Cloud Computing, Distributed Systems	ag.csn@kitsw.ac.in
11.	Mrs. R. Swetha	M.Tech.	Assistant Professor	Machine Learning	swetharevoori.csn@kitsw.ac.in
12.	Sri D. Ramesh	M.Tech(Ph.D)	Assistant Professor	Data Science,IoT, Networks	dr.csn@kitsw.ac.in
13.	Mrs. E. Rajitha	M.Tech(Ph.D)	Assistant Professor	Computer Vision and Image Processing (AI&ML)	er.csn@kitsw.ac.in
14.	Ms. E. Vishnu Priya Reddy	M.Tech., (Ph.D)	Assistant Professor	Internet of Things, Deep Learning	evp.csn@kitsw.ac.in
15.	Ms. S. Divya	M.Tech	Assistant Professor	Machine Learning, Data Science, Internet of Things	sd.csn@kitsw.ac.in
16.	Ms. Md. Safiya	M.Tech	Assistant Professor	Machine Learning, Data Science	safiya.csn@kitsw.ac.in
17.	Ms. M. Hithasri	M.Tech	Assistant Professor	Machine Learning, Data Science	hithasri.csn@kitsw.ac.in
18.	Dr. A. Kiran Mayee	Ph.D	Associate professor	Natural Language Processing	km.csn@kitsw.ac.in
19.	Sri S.Ravi	M.Tech.	Assistant Professor	Network	ravi.csn@kitsw.ac.in

LIST OF FACULTY

S.NO	Name	Qualification (specialization)	Designation / Affiliation	Research Area	Email ID
20.	Sri.M.Rama Rao	M.Tech	Assistant Professor	Machine Learning	ramarao.csn@ kitsw.ac.in
21.	Smt.V.Prashanthi	M.Tech	Assistant Professor	Software Engineering	vp.csn@kitsw.ac.in
22.	Mrs. D. Haritha	M.Tech	Assistant Professor	Machine Learning, Data Science	haritha.csn@ kitsw.ac.in
23.	Dr.S.Raghu	Ph.D	Assistant Professor	Deep Learning, Image processing	sr.csn@kitsw.ac.in
24.	Sri.Ch.Jayanth babu	M.Tech	Assistant Professor	Network & cryptogrphy	cjb.csn@kitsw.ac.in
25.	Sri. K.Ravi Kanth	M.Tech	Assistant Professor	Blockchain &distributed Technology	krk.csn@kitsw.ac.in
26.	Smt. P.Priyanka	M.Tech	Assistant Professor	Networks	pp.csn@kitsw.ac.in
27.	Smt. K.Shruthi	M.Tech	Assistant Professor	Machine Learning	ks.csn@ kitsw.ac.in
28.	Smt. M.Susmitha	M.Tech	Assistant Professor	Network	ms.csn@ kitsw.ac.in
29.	Dr. P.Suma	Ph.D.	Assistant Professor	Adhoc Networks	suma.csn@ kitsw.ac.in

LIST OF FACULTY

S.NO	Name	Qualification (specialization)	Designation / Affiliation	Research Area	Email ID
30.	Sri B.Ramji	M.Tech	Assistant Professor	Machine Learning	br.csn@kitsw.ac.in
31.	Sri V.Srinivas	M.Tech	Assistant Professor	Network	srinivas.csn@ kitsw.ac.in
32.	Smt. M.Shirisha	M.Tech	Assistant Professor	Data Mining, Machine Learning	shirisha.csn@ kitsw.ac.in
33.	Smt. B.Manoja Rani	M.Tech	Assistant Professor	Machine Learning	vp.csn@kitsw.ac.in
34.	Smt. M. Priyadarshini	M.Tech	Assistant Professor	Data mining	mp.csn@ kitsw.ac.in
35.	Sri J.Satish	M.Tech	Assistant Professor	Network	sr.csn@kitsw.ac.in

FACULTY ACHIEVEMENTS

Scopus Reasearch Papers

Name of the faculty/faculties: Dr. S. Venkatramulu ,Dr. V. Chandra Shekar Rao

Title of Paper: Violation of Traffic Rules and Detection of Sign Boards,”

Name of journal : International Journal on Recent and Innovation Trends in Computing and Communication

Year of publication : Aug. 2023

Link to the recognition in UGC enlistment of the Journal : <https://doi.org/10.17762/ijritcc.v11i8s.7204>.

Name of the faculty/faculties: Dr.A.Godavari

Title of Paper: Dynamic adaptive resource allocation for edge computing in big data analytics using gbd, dqn, and ga algorithms

Name of journal : Journal of Electrical Systems

Year of publication : Apr. 2024

Link to the recognition in UGC enlistment of the Journal : <https://doi.org/10.52783/jes.2561>

Name of the faculty/faculties: Dr. S. Venkatramulu , Dr. V. Chandra Shekar Rao

Title of Paper: Violation of Traffic Rules and Detection of Sign Boards

Name of journal : International Journal on Recent and Innovation Trends in Computing and Communication

Year of publication : Aug. 2023.

Link to the recognition in UGC enlistment of the Journal : DOI:10.17762/ijritcc.v11i8s.7204

Name of the faculty/faculties: Dr. A. Kiranmayee

Title of Paper: Enhanced Routing Protocol in Mobile Ad hoc Network for Improving the Performance

Name of journal : . Journal of theoretical and Applied Information Technology

Year of publication : Feb. 2024.

Link to the recognition in UGC enlistment of the Journal : <http://www.jatit.org/volumes/vol102No14.pdf>

Scopus Reasearch Papers

Name of the faculty/faculties: D.Ramesh

Title of Paper: Dengue symptoms classification analysis with improved conditional probability decision analysis

Name of journal : IApplied Nanoscience

Year of publication : Feb-2022

Link to the recognition in UGC enlistment of the Journal : <https://doi.org/10.1007/s13204-022-02387-9>.

Name of the faculty/faculties: Dr.D.Kumar , Dr.S.Swathy

Title of Paper: Exploring human resource management intelligence practices using machine learning models

Name of journal : The Journal of High Technology Management Research

Year of publication : Nov. 2023

Link to the recognition in UGC enlistment of the Journal : <https://doi.org/10.1016/j.hitech.2023.100466>.

Name of the faculty/faculties: Dr.B.Hanmanthu

Title of Paper: Brain tumor image identification and classification on the internet of medical things using deep learning

Name of journal : Measurement. Sensors

Year of publication : Dec-2023

Link to the recognition in UGC enlistment of the Journal : doi.org/10.1016/j.measen.2023.100905

Name of the faculty/faculties: Dr.D.Kumar

Title of Paper: Integrated Slope Monitoring System for Slope Stability Over Old Underground Galleries During Surface Mining Operations Using Internet of Things

Name of journal : Geotechnical and Geological Engineering,

Year of publication : Dec-2022

Link to the recognition in UGC enlistment of the Journal : <https://doi.org/10.1007/s10706-022-02369-2>.

Book chapters

Name of the faculty: Dr.P.Suma

Book chapter Name : Enhanced deep learning networks for advanced intrusion detection and prevention systems

Book Name : Industry 6.0

Publisher Name:Taylor & Francic group

Year of publication : 2024

PublicationLink:

<https://www.taylorfrancis.com/chapters/edit/10.1201/9781003517993-6/enhanced-deep-learning-networks-advanced-intrusion-detection-prevention-systems-rekha-gangula-suma-patra-nata-sheker-reddy-miriyala>

Name of the faculty: Dr. B. Hanumanthu

Book chapter Name : Data Science for Beginners

Book Name : Data Science for Beginners

Publisher Name: AASAN

Year of publication : 2023

Publication Link : <https://aasans.com/books.html>

Name of the faculty: Dr. A. Jothiprabha

Book chapter Name : An Efficient Machine Learning Model for Prediction of Dyslexia from Eye Fixation Events

Book Name : New Approaches in Engineering Research Vol. 10

Publisher Name: BP International

Year of publication : 2021

Publication Link : <https://doi.org/10.9734/bpi/naer/v10/11914D>

STUDENTS ACHIEVEMENTS

ARTICLE

Name of the student: Amitha Ramadasu (B21CN019)

Title of the Article : UNIFIED SMART INTERFACE FOR DYNAMIC BLOOD BANK OPTIMIZATION

About the Article:The Unified Smart Interface for Dynamic Blood Bank Optimization is a web application designed to enhance blood bank operations. It provides real-time tracking of blood availability, allows donors to register and donate blood, and enables users to find the nearest blood banks using GPS. The system optimizes blood transportation by calculating the fastest routes, minimizing delays, and offering a blood request feature. With a user-friendly interface for donors, recipients, and blood bank administrators, it streamlines inventory management and logistics. The solution aims to save lives by improving blood delivery speed, reducing shortages, and enhancing overall blood bank efficiency, making it a valuable tool for healthcare systems and communities.

Objectives:

- To develop a user-friendly platform that allows users to easily access the important information such as available blood types and easily locate the nearest blood banks.
- Real-time tracking and visualization of blood bank's location using google maps, that enables users to easily locate the nearest blood banks on their geographical location and access the blood supplies as earliest possible.
- Advancement in the existing blood bank management system, developing the advanced administrative tools for blood bank management like inventory, tracking the donations, response to the donation requests efficiently.
- Integrating the real time updates on donation requests, blood availability to facilitate timely information for the recipients and the donors based on their location and blood compatibility.

Novelty:

- 1.Location Based Services Integration.
- 2.Delivery Service Integration
- 3.Smart Notification System

Conclusion:

Unified Smart Interface for Dynamic Blood Bank Optimization presents a transformative idea to blood bank management, the main focus of attention is to provide blood access to the needy as earliest as possible in emergency situations, combining advanced technologies to enhance efficiency, effectiveness and accessibility. With integration of geolocation services, user-friendly interfaces, this system facilitates efficient blood donation process and improve healthcare outcomes.

STUDENT CONFERENCES

Name of the student: Netha sridatta(B19CN002),Nishikanth annamaneni(B19CN001)

Name of the faculty guided : Dr.V.Shankar, Dr.B.Hanumanthu

Title of the conference : 1st International Conference on Optimization Technique uses for Learning(ICOTL'23)

Year: 2023

Host institution/organization : Madanapalle Institute of Technology and Science, Chittor, AP

link to publish conference paper : Effective Contact Tracing of CovidPatients Using. MachineLearningTechniqueIEEE ConferencePublicationIEEE Xplore.

Name of the student: Nishikanth Annamaneni(B19CN001)

Name of the faculty guided : Dr.V.Shankar, Dr.B.Hanumanthu

Title of the conference : 1st International Conference on Optimization Technique uses for Learning(ICOTL'23)

Year: 2023

Host institution/organization : Madanapalle Institute of Technology and Science, Chittor, AP

link to publish conference paper : : Voice Based Assistance About Surrounding of blind an
| IEEE Conferebce publication | IEEE Xplore.