



## LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING (AUTONOMOUS)

Accredited by NAAC with 'A' Grade

An ISO 21001:2018, 14001:2015, 50001:2018 Certified Institution

Approved by AICTE, New Delhi and Affiliated to JNTUK, Kakinada

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**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING (AI&ML)**

## **Network and Cloud Computing Security Research Group**

### **INTRODUCTION:**

The Network and Cloud Computing Security Research Group in the Department of Computer Science and Engineering (AI&ML) at Lakireddy Bali Reddy College of Engineering is committed to advancing research in secure networking and cloud computing infrastructures. The group actively investigates key areas such as cryptographic techniques, network security, cloud data protection, intrusion detection systems, and privacy-preserving technologies. Supported by state-of-the-art laboratories and high-performance computing facilities, the group provides an enabling environment for faculty and students to address security challenges in emerging network architectures and cloud platforms.

Under the guidance of a team of highly qualified and experienced faculty members, the research group promotes active engagement in innovative and impactful research. Through the regular organization of workshops, seminars, and guest lectures delivered by experts from industry and academia, the group ensures continuous exposure to recent advancements in the field. Furthermore, faculty members mentor students in publishing research outcomes in reputed journals and pursuing research grants, thereby fostering a strong culture of innovation, collaboration, and knowledge sharing.

### **Objectives of the Network and Cloud Computing Security Research Group**

1. To design and develop secure network models and cloud computing architectures that effectively mitigate cyber threats and ensure data confidentiality and privacy.
2. To conduct regular faculty and student colloquia to facilitate the exchange of ideas and dissemination of recent advancements in network and cloud security.
3. To organize workshops, Faculty Development Programs (FDPs), and guest lectures led by experts from industry, academia, and research organizations on emerging security technologies and their real-world applications.
4. To effectively utilize existing research infrastructure and facilities to carry out advanced research and produce high-quality scholarly publications in the domain of network and cloud security.
5. To prepare and submit research proposals to funding agencies such as AICTE, UGC, and DST to secure financial support for network and cloud security research

initiatives.

6. To motivate and support faculty and students to actively participate in research and publish their findings in reputed SCIE, Scopus-indexed, and UGC-listed journals.
7. To improve the quality and relevance of B.Tech projects by incorporating secure networking and cloud computing practices into project design and implementation.

**Members of Network and Cloud Computing Security Research Group:**

<b>S.NO</b>	<b>Name of the Member</b>	<b>Designation</b>
<b>1.</b>	Dr Pandu Ranga Rao	Coordinator
<b>2.</b>	Dr B Srinivasa Rao	Members
<b>3.</b>	Dr B Rajendra Prasad	
<b>4.</b>	Mrs Sk Razeena Begum	
<b>5.</b>	Mrs D Mangamma	
<b>6.</b>	Mr R Chiranjeevi	

**JOURNALS**  
**ACY:2024-2025**

1. S. Mande, N. Ramachandran, S. Salma Asiya Begum and F. Moreira, "Optimized Reinforcement Learning for Resource Allocation in Vehicular Ad Hoc Networks," in IEEE Access, vol. 12, pp. ISSN:167040-167048, 2024, IF:-3.6 doi: 10.1109/ACCESS.2024.3489395.
2. S. Mande, S. S. A. Begum, and N. Ramachandran, "Navigating the Future of Intelligent Transportation: Challenges and Solutions in 6G V2X and V2V Networks", EAI Endorsed Trans IoT, vol. 11, Feb. 2025,IF: 1.28, <https://doi.org/10.4108/eetiot.5114>
3. C. R. Tamma, S. Shamsheer, R. Venigalla, C. Akash, S. S. A. Begum and S. K. Medishetti, "Cost Aware Scheduling in Hybrid Cloud-Fog Environment Using Earthworm Optimization Algorithm," 2024 International Conference on Advancement in Renewable Energy and Intelligent Systems (AREIS), Thrissur, India, 2024, pp. 1-9, doi: 10.1109/AREIS62559.2024.10893670.
4. C. R. Tamma, S. Shamsheer, R. Venigalla, C. Akash, S. S. Asiya Begum and S. K. Medishetti, "SBOA: Optimizing VM Failures and Operational Cost for Task Scheduling in Cloud-Fog Environment," 2024 International Conference on Advancement in Renewable Energy and Intelligent Systems (AREIS), Thrissur, India, 2024, pp. 1-9, doi: 10.1109/AREIS62559.2024.10893649.
5. Dr. Banavathu rajendra prasad, Shaik Rahim, Peketi Sri Shyam Manohar,Pasupureddy Laxmipavankumar, Kethanaboina Srinivasulu "Extra Trees Approach for URLs Intrusion Detection for Network Security"Proceedings of WRFER International Conference, Bikaner, India, 24th April, 2025,pages1-7, ISBN.978-93-90150-25-0
6. Mande, S., Begum, S. S. A., Durga, P., Mohanty, S. N., & Moreira, F. (2025). Generalization Analysis of ANN-Based Routing Protocols for Diverse Vehicular Environments in VANETs. *Franklin Open*, 100430.