



## Centre for Research & Development

### Research Supervisor (Guide) Profiles

#### Discipline of Supervision: **Computer Science**



#### **Dr. Sangeetha V**

Associate Professor  
Department of Computer Science (PG)  
School of Computational & Physical Sciences

#### **Areas of Specialisation:**

Advanced Networking, Cyber Security, Machine Learning,  
Artificial Intelligence, Cloud computing

Dr. Sangeetha V is an Associate Professor in the Department of Computer Science (PG) at Kristu Jayanti Institute of Technology (KJIT), Kristu Jayanti (Deemed-to-be) University, Bengaluru. She brings over 17 years of academic experience across several esteemed institutions. She is an accomplished researcher specializing in Advanced Networking and Neural Networks, with a strong focus on Cognitive Radio Networks, Spectrum Optimization, and Intelligent Computing Techniques. Her research addresses critical challenges in wireless communication, including efficient spectrum utilization, energy optimization, and network security. By integrating advanced computational approaches such as Fuzzy Logic, Convolutional Neural Networks (CNN), and Neuro-Fuzzy Systems, she has developed innovative models to enhance the performance and reliability of cognitive radio networks. Her work emphasizes adaptive and intelligent decision-making in complex communication environments. She has published numerous research papers in reputed Scopus-indexed, Web of Science, and UGC CARE journals. Her research contributions span areas such as intrusion detection in cognitive radio networks, adaptive spectrum sensing, and optimization-based performance enhancement. She has also contributed to the academic and research community through patents focused on fuzzy-based neural network optimization and intelligent data analysis models. Her interdisciplinary research effectively bridges network engineering and artificial intelligence, enabling the development of smarter and more adaptive communication systems.

#### **Selected Publications:**

- 1. Sangeetha V.** (2021) The Analysis of Fuzzy Logic Based Cognitive Radio, in the standard referred journal named NIU International Journal of Human Rights ISSN: 2394-0298 Volume 8(XXIII), 2021, pp 183-188 (UGC Care Group 1 Journal)
- 2. Sangeetha V.** (2022) Cognitive Radio Channel Selection Using Fuzzy Logic, in the standard referred journal named Shodha Prabha (UGC CARE Journal), ISSN: 0974-8946 Vol. 47, Issue. 01, No.2: 2022 Shri Lal Bahadur Shastri Rashriya Sanskrit Vidyapeetha, pp 126-129 (UGC Care Group 1 Journal)
- 3. Sangeetha V.** (2021) Opportunistic Spectrum Sensing and Access In Cognitive Radio Using Fuzzy Logic in the standard referred journal named JOURNAL OF THE ASIATIC SOCIETY OF MUMBAI, ISSN: 0972-0766, Vol. XCV, No.3, 2022, pp 90-94 (UGC Care Group 1 Journal)