RESUME

1. Personal Details

NAME	**Dr. MONIKA MALIK**	
COLLEGE	JSSATE, Noida	
DESIGNATION	ASSISTANT PROFESSOR-III	
PHONE	9971055554	
EMAIL ID	monikamalik@jssaten.ac.in	
Date of Joining (JSSATEN)	16-08-2007- till date	

2. Experience

Total Experience in Years: 17	Teaching: 17+	Industry: - Nil	Research: **PhD completed**

3. Qualifications

COURSES	SPECIALIZATION	Year of Award	INSTITUTION	UNIVERSITY
B.E.	Electronics and Communication Engineering.	2002	MCET, Lakshmangarh	Rajasthan University
M. Tech.	Digital Communication	2014	JEC, Jaipur	Rajasthan Technical University
Ph.D.	Wireless sensor Networks	**2024**	Jaypee institute of information Technology Noida	Jaypee University

4. Research & Publications

Journals

1. **Monika Malik,** Alok Joshi and Gayatri Sakya, "Optimized leach protocol for energy management in wireless sensor network", in *Multimedia Tools and Applications*, Vol:(0123456789) ,https://doi.org/10.1007/s11042-023-16248-2 (**SCIwith IF=2.577**).(online)

2. **Monika Malik, Alok Joshi and Gayatri Sakya,** "DC-LEACH: A unique cluster head selection algorithm with improved QoS in real time applications for WSN", *Journal of Information & Optimization Sciences, ISSN* 0252-2667 (Print), ISSN 2169-0103 (Online) DOI : 10.47974/JIOS-1458.(ESCI with IF=1.4(Q2)). (online)

3. **Monika Malik, Alok Joshi and Gayatri Sakya,** "Application of nature inspired optimization algorithm on hierarchal LEACH protocol for improved performance", *Journal of Information & Optimization Sciences* **,**ISSN 0252-2667 (Print), ISSN 2169-0103 (Online) DOI : 10.47974/JIOS-1460. .(ESCI with IF=1.4(Q2)). (Online).

4. M**onika Malik ,Ruchi Kushwaha, Rohit Shambharkar**, **Suyash Gupta**, "Integration of Block chain Model for Energy Efficient WSN for IOT Application", Journal for Research in Applied Science and Engineering Technology,2023.

5. **Sakya, Gayatri, Malik, Monika & Sharma, Deependra, "**An exploration of integration of IoT and 5G networks and a fuzzy approach for clustering to enhance the lifetime of such networks", Journal of Information and Optimization Sciences, 2023, 44:6, 1215–1227, DOI: 10.47974/JIOS-1459

6. **Monika Malik, Nischal Maurya**, "Data Aggregation Technique using Genetic Algorithm", International Journal of Advance Engineering and Research Development,2017

7. **Monika Malik, Alok Joshi and Gayatri Sakya** , "Exploration of Enhancement of LEACH Protocol for Massive and Critical IOT Applications", *Journal of Computer Networks **(in review)***

8. **Monika Malik, Alok Joshi and Gayatri Sakya, "**New Recursive LEACH Procedure for Real Time Applications**",** *Sustainable Computing: Informatics and Systems**(in review)***

Book Chapter:

1. Monika Malik, Nimish Rastogi, Harshita Piyush, Siddhant Singh, Fuzzy logic Application for Early Landslide Detection, Springer book series "Lecture Notes in Networks and Systems,2022.
2. Monika Malik ,Surchi Gupta, Prastuti Gupta and Divya Srivastava, "Air Quality Monitoring Platform", Springer book series "Lecture Notes in Networks and Systems.2022 .

Conferences

1. **Monika Malik, Alok Joshi and Gayatri Sakya** , "Network Lifetime Improvement for WSN Using Machine Learning," *2021 7th International Conference on Signal Processing and Communication (ICSC)*, Noida, India, 2021, pp. 80-84, doi: 10.1109/ICSC53193.2021.9673190. [**Scopus Indexed conf**]

2. **Monika Malik, Gayatri Sakya and Alok Joshi,** "Enhancement of Network Life Time in the LEACH Protocol for Real Time Applications" , IC3-2021: Proceedings of the 2021 Thirteenth International Conference on Contemporary Computing, August 2021Pages 426–431, https://doi.org/10.1145/3474124.3474188 [**Scopus Indexed conf**]

3. **Monika Malik, Alok Joshi and Gayatri Sakya,** "Various Optimization Algorithms for Enhancing Network Lifetime in LEACH Protocol in WSN*,"* 8th International Conference on Signal Processing and Communication (ICSC)*, Noida, India, 2022, pp.* 215-219, doi: 10.1109/ICSC56524.2022.10009415. [**Scopus Indexed conf].**

4. **G. Sakya, M. Malik, S. Vats, Y. Rathor, A. Gangwar and P. Srivastava**, "Design of a Microstrip Circular Patch Antenna at 2.4 GHz Using HFSS for IoTApplication," 2023 6th International Conference on Contemporary Computing and

Informatics (IC3I), Gautam Buddha Nagar, India, 2023, pp. 1232-1237, doi:10.1109/IC3I59117.2023.10398019., [**Scopus Indexed conf].**

5. **Monika Malik , Gayatri Sakya, Ruchi , Suyash Gupta, Rohit Sambharkar** "Performance Analysis of Energy Efficient WSN using Block-chain model for IOT Application" , International Conference on Intelligent Computation and Analytics on Sustainable Energy and Environment,2023, [**Scopus Indexed conf].**

6. **Monika Malik, Alok Joshi and Gayatri Sakya,** "Traffic based selection of cluster Head in WSN for IoT Application", ICICCT-2024 Conference, by Taylor & Francis and Indexing in Scopus. [**Scopus Indexed conf].**

5. Grants
i. Funds Received (Projects)

Project Name	Grant Amount	Date of receiving the Grant	Duration	Grant issuing authority/ Body / Organization
Organic Farming using AI, Robotics and IoT for Women Entrepreneurship in KOT Village, Dadri, Gautam Buddha Nagar, Uttar Pradesh- **CO-PI**	**37L**	**Final Approval 16th May24**	**3Yrs**	**DST** (under STW Programme)

ii. Patents

Sl. No.	Title Details	Details of award of patent / Filed
01	Cloud-Based Robotic System For Agriculture Management	2023(application 202311049158)

Others Details

Name	
Workshop Attended	**20**
Workshop Organized	07
NPTEL Course	02
Best student Feedback Award	01
Lab In charge	e-Yantra Robotics Lab-IITB
NBA Criteria In charge	Criteria -3

Ms. Monika Malik