**Dr. Niharika Anand**

Assistant Professor

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**EDUCATION**

1. Doctorate of Philosophy in Information Technology (Ph.D

Thesis Title: Resource Constrained Model for 3-D Wireless Sensor Network : Deployment and Localization

Institute: Indian Institute of Information Technology, Jhalwa, Allahabad.

1. Master of Technology in Electronics and Communication (M. Tech.)

Thesis Title: DES based security using FPGA

Institute: Singhania University, Rajasthan

1. Bachelor of Technology in Information Technology (B. Tech.)

Institute: Moradabad Institute of Technology, Moradabad. Uttar Pradesh.

**TEACHING EXPERIENCE**

**Assistant Professor at Indian Institute of Information Technology, Lucknow.**

**Duration:** November 2018 – Contd

**Assistant Professor (Contractual)** at Thapar Institute of Engineering Technology, Patiala

**Duration**: July 2018–November 2018.

**Assistant Professor** atMeerut Institute of Engineering Technology, Meerut

**Duration** : August 2017–June 2018.

**Assistant Professor** at Meerut Institute of Engineering Technology, Meerut

**Duration** : August 2012–December 2013.

**Sr. Lecturer** atMeerut Institute of Engineering Technology, Meerut

**Duration** : January 2010–July 2010.

**Lecturer** at College of Engineering Technology (Now IFTM University), Moradabad

**Duration:** August 2006–Oct. 2009.

**RESEARCH INTEREST**

1. Wireless Sensor Networks
2. 4G and 5G technologies
3. Internet of Things
4. Security in Wireless Sensor Networks
5. Distributed Networks

**TEACHING INTEREST**

***Subjects for Spring session***

1. Digital Electronics
2. Communication System
3. Wireless Communication

***Subjects for Fall session***

1. Data Communication
2. Electronics System

**RESEARCH PUBLICATIONS**

1. “Enhanced Reliable Reactive Routing (ER3) Protocol for Multimedia Applications in 3D Wireless Sensor Networks”, Multimedia Tools and Applications (2017): 1-20. (SCI-E, JCR, Scopus, DBLP, ACM) (Impact Factor: 1.53)
2. “A 3-D Radio Irregularity Model (3DRIM) for Wireless Sensor Network”, Wireless Personal Communications, (2017), Volume 96, Number 3, page nos. 4725-4735. (SCI-E, JCR, Scopus, ACM) (Impact Factor: 1.0)
3. “A Novel Computational Geometry Based Node Deployment Scheme in 3-D Wireless Sensor Network,” International Journal of Sensor Network, Inderscience, Vol. 25, No.3, 2017 (SCI-E, JCR, Scopus, DBLP, ACM) (Impact Factor: 0.635)
4. “MSVR Based Range-Free Localization Technique for 3-D Sensor Networks” Wireless Personal Communications: 1-18. (SCI-E, JCR, Scopus, ACM) (Impact Factor: 1.0)
5. “Energy Efficient Routing for Collision Avoidance in Wireless Sensor Networks: A Cross layer Approach” first revision done in IET Communications (SCI, Scopus, DBLP, ACM) (Impact Factor: 1.06)

**International Conference Papers (available online)**

1. “Radio Irregularity Model Based on Received Signal Strength for Three Dimensional Wireless Sensor Network” In Region 10 Conference (TENCON), 2016 IEEE, pp. 2008-2012. IEEE, 2016, Singapore
2. “Scrutinizing Localized Topology Control in WSN Using Rigid Graphs," Proc. of 9thINDIACom − 2015, IEEE Conference, 2015,2nd International Conference on Computing for Sustainable Global Development, 11− 13March − 2015, pp − 349 − 352. (Listed in IEEE Explore).