

DR. MANISHA BHATT

Assistant Professor

Department of Electronics & Communication Engineering

Qualifications: Ph. D, M. Tech, B. Tech.

Area of Interest: Wireless Communication

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Work Experience

- Assistant Professor, Department of Electronics & Communication Engineering, G.B Pant Institute of Engineering and Technology, Pauri Garhwal (UK), India from Apr 2019 to present.
- Assistant Professor, Department of Electronics & Communication Engineering, Bipin Tripathi Kumaon Institute of Technology, Dwarahat (UK), India from Jan 2013 to Jun 2015.
- Assistant Professor, IEC group of Institutions, Greater Noida, Gautam Budh Nagar, (UP) India from Aug 2012 to Jan 2013

Research Interests:

- Wireless Communication
- Propagation Channel Modeling
- Cognitive Radio

Education:

- Doctor of Philosophy (Ph.D.) in Wireless Communication from Electronics & Communication Engineering, G.B Pant Institute of Engineering and Technology, Pauri-Garhwal (UK), India, 2020.
- Master of Technology (M.Tech.) with Honors from Uttarakhand Technical University, India, 2012.
- Bachelor of Technology (B.Tech.) with Honors from Uttarakhand Technical University, India, 2010.

Administrative Experience:

1. Warden, Raman Hostel, G. B. Pant Institute of Engineering & Technology Ghurdauri, Pauri Garhwal, from June 2020 to till date.
2. Warden, Bhagirathi Hostel, G. B. Pant Institute of Engineering & Technology Ghurdauri, Pauri Garhwal, from June 2019 to June 2020.
3. Warden of Nalanda Girl's Hostel in Bipin Tripathi Kumaon Institute of Technology, Dwarahat from August, 2013 to June, 2015.

Research Publications:

International Journals:

1. Manisha Bhatt and S. K. Soni, "Performance Analysis Over Unified Generalized Composite Fading Model," *Wireless Pers Commun* (2020). <https://doi.org/10.1007/s11277-020-07661-z>. (SCI)

2. Manisha Bhatt and S. K. Soni, "Performance of an energy detector over η - μ /lognormal composite channel with cooperative sensing," *International Journal of Electronics* (Taylor & Francis), vol. 105, no. 8, pp. 1273–1285, 2018. (SCI)
3. Manisha Bhatt and S.K.Soni, "Performance analysis of shadowed-Rice fading channel with cooperative spectrum sensing," *International Journal of Electronics*, vol. 105, no. 11, pp. 1816–1830, 2018. (SCI)
4. Manisha Bhatt, S.K.Soni, "A Unified Performance Analysis of Energy Detector over α - η - μ /Lognormal and α - κ - μ /Lognormal Composite Fading Channels with Diversity and Cooperative Spectrum Sensing," in *Int. J. Electron. Commun. (AEÜ)*(Elsevier), vol.94, pp 367-37, 2018. (SCI)
5. Vidhi Rana, Puspraj Singh Chauhan, S.K.Soni, Manisha Bhatt, "A New Closed-form of ASEP and Channel Capacity with MRC and Selection Combining over Inverse Gaussian Shadowing," *Int. J. Electron. Commun. (AEÜ)*(Elsevier) 74 (2017) 107–115, ISSN: 1434-8411. (SCI)

Conference Papers:

1. Manisha Bhatt, Sanjay Kumar Soni, "[Spectrum Sensing Based on Energy Detection with \$\alpha\$ - \$\eta\$ - \$\kappa\$ - \$\mu\$ Distribution](#)," Accepted and presented in International Conference on Electrical And Electronics Engineering (ICE3 2020), Madan Mohan Malaviya University of Technology, Gorakhpur (UP), 2020, Feb 14-15.
2. Manisha Bhatt and S.K.Soni, "Performance Analysis of Energy Detection Based Cognitive Radio over GBK Fading Channel," Accepted and presented in 5th "IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON-2018), Madan Mohan Malaviya University of Technology, Gorakhpur (UP), 2018, November 2-4.
3. Manisha Bhatt and S.K.Soni, "ASEP Analysis over Unified Lognormal Shadowed α - η - μ and α - κ - μ Composite Fading Channels," Accepted and presented in International Conference on Intelligent Computing and Control Systems (ICICCS 2018), VAIGAI College of Engineering, Madurai, 2018, June 14-15.
4. Manisha Bhatt and S.K.Soni, "Energy Detection over Unified α - η - μ and α - κ - μ Fading Channels," Accepted and presented in International Conference on Inventive Communication and Computational Technologies (ICICCT 2018), Coimbatore, 2018, April 20-21.
5. Sanjay Kumar Soni, Vidhi Rana, Manisha Bhatt, "Closed-form Expressions of Symbol Error Probability of Non-Coherent Modulation Techniques over Generalized K Fading Channel," Accepted and presented in International Conference on Recent Trends in Engineering and Materials Science, Jaipur National University, 2016, March 17-19.

Short-Term Courses/Faculty Development Programmes Organized:

1. Workshop: Co-coordinated one-week workshop on "Antenna Design, Fabrication and Measurement Technologies" Nov 25-29, 2019, Department of Electronics and Communication Engineering, GBPIET, Pauri.
2. Short-Term Course: Co-coordinated one-week short-term course on "FPGA and Mentor Graphics Tool" Oct 10-14, 2019, Department of Electronics and Communication Engineering, GBPIET, Pauri.
3. Faculty development program: Co-coordinated two week online faculty development program on "Recent Research Trends in Electronics and Communication Engineering" August 18-28, 2020, Department of Electronics & Communication Engineering, GBPIET, Pauri .

Subjects Taught:

1. Mobile Communication
2. Wireless Communication Systems
3. Principles of Secure Communication
4. Analog Communication

Area of Research:

Wireless Propagation Channel Modeling and Cognitive Radio.

Awards & Honors:

Was school topper in all India secondary school examination.

Was second school topper in all India senior school certificate examination.

Was third topper of Uttarakhand Technical University in B. Tech.

Professional Activities:**Professional Affiliation:**

1. Life member of the Indian society for technical education (ISTE).

Reviewer in National and International Journals:

1. IEEE Access (USA).
2. International Journal of Communication Systems (Wiley).
3. International Journal of Electronics (Taylor & Francis).