

Assistant Professor
Electronics Engineering
H.B.T.U. Kanpur, Uttar Pradesh
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Qualification: Ph.D.
M. Tech. (Communication Engineering)
B. Tech. (Electronics and Communication Engineering)

Details of Ph.D.:

Research Area: Wireless Communication

PhD Thesis Title: Channel Characterization and Statistical Analysis of Wireless Communication System with Diversity Techniques.

Mode of PhD: Full Time

Designation: Assistant Professor in Electronics Engineering Deptt.
Organization: **Harcourt Butler Technical University, Uttar Pradesh.**
Description: T&P Co-ordinator
Lab Incharge of Electronics Engineering Lab
Incubation Co-ordinator(ET Deptt.)
. Duration: From 21-09-2023 to till now.

Designation: Assistant Professor
Organization: **Institute of Technology and Management, Gida, Uttar Pradesh.**
Description: To conduct assigned graduate courses and to guide students in Drone Design Lab.
Duration: From 30-10-2022 to till now.

Designation: Contractual Faculty
Organization: **Madan Mohan Malaviya University of Technology, Gorakhpur, U.P., PIN 273010.**
Description: To conduct assigned post-graduate courses and to guide students in research projects.
Duration: From 16-08-2016 to 30-04-2017.

Designation: Contractual Faculty
Organization: **Madan Mohan Malaviya University of Technology, Gorakhpur, U.P., PIN 273010.**
Description: To conduct assigned undergraduate courses and to guide students in research projects.
Duration: From 22-07-2017 to 05-05-2018.

Publications (20):**(Annexure -B)**

1. SCIE indexed International Journal (09)
2. National Journals (03)
3. International Conferences (08)

Subject Comfortable to Teach: Electronics Devices & Circuits, Electromagnetic Field Theory, Microprocessor, Digital Electronics, Communication System, Microprocessor, Analog Circuit, SSDC.

Academic Profile:

Qualification	College/Institute	Board	Year	Percentage/CGPA
Ph.D. (Wireless Communication)	Madan Mohan Malaviya University of Technology Gorakhpur (NAAC Accredited (A))	MMMUT	2022	-
M.Tech (Comm. Eng.)	Madan Mohan Malaviya University of Technology Gorakhpur	MMMUT	2016	8.3/10
B.Tech (ECE)	Institute of Technology & Management Gorakhpur	GBTU	2012	68.66%
Intermediate	C.R.T.S.V. Mandir Siswa bazar Maharajganj	U.P.	2008	72.40%
High school	P.D.D. Higher Secondary School Maharajganj	U.P.	2006	68.66 %

Personal Details:

Father's Name: Shri Krishna Gopal Upadhyay

Date of Birth: 19-01-1992

Marital Status: Unmarried

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Mailing Address: ECE Dett., Madan Mohan Malaviya University of Technology
Gorakhpur, Uttar Pradesh, PIN-273010.

Permanent Address: H. No. 231 DH, Ward No. 08, Rajiv Nagar, Maharajganj, Uttar Pradesh,
INDIA, 273303.

Languages Known: Hindi and English.

Technical Skills: Matlab, Python, Machine Learning, C, C++, HFSS Simulation,

Soft Skills: Innovative and Strategic Thinking, Team Spirit,
Conscientiousness and Good Cognitive Ability.

What I Like Most: Gardening, Reading and Writing Something Substantial,
Visiting Places of Historical and Forest places

Annexure -A: Professional Accomplishments:

- Reviewer and Volunteer in International Conference on Electrical and Electronics Engineering (IC3-2020).
- Participated in one-week short term course on ‘Recent Advances in Devices, Circuits and Communication’ sponsored by TEQUIP-III
- Volunteer in 5th IEEE conference (UPCON-2018).
- Qualified for CBSE UGC- NET July -2016, July-2018.
- Qualified for GATE- 2017.
- Qualified for GATE- 2015.
- Qualified for GATE- 2014.

Annexure -B: List of Publications:

SCI Indexed International Journal (08):

1. P. S. Chauhan, S. Kumar, **V. K. Upadhyay**, and S. K. Soni, “Unified Approach to Effective Capacity for Generalised Fading Channels,” *Physical Communications*, vol. 45, 101278, 2021. **(I.F.-2.379)**
2. **V.K. Upadhyay**, P. S. Chauhan, and S. K. Soni, “Effective Capacity Analysis of SIMO System with MRC and SC over Inverse-Gamma Shadowing,” *International Journal of Electronics*, 2021, vol. 109, no. 2, pg. 181-199. **(I.F.-1.457)**
3. **V.K. Upadhyay**, S. K. Soni, and P. S. Chauhan, “An Approximate Statistical Analysis of Wireless Channel over α - μ Shadowed Fading Channel,” *International Journal of Communication System*, 2021. <https://doi.org/10.1002/dac.4884> **(I.F.-1.882)**
4. P. S. Chauhan, S. Kumar, **V. K. Upadhyay**, Rajan Mishra, Brijesh Kumar and S. K. Soni, “Performance Analysis of ED over Air-to-Ground and Ground-to-Ground Fading Channels: A Unified and Exact Solution” *AEUE - International Journal of Electronics and Communications*, Vol.138, 2021, 153839. **(I.F.-3.183)**
5. **V. K. Upadhyay**, S. K. Soni, P. S. Chauhan, “The α - η - μ /inverse gamma fading subjected to wireless applications with MRC diversity”, *International Journal of Communication Systems*, 10.1002/dac.5102. **(I.F.-1.882)**
6. P. S. Chauhan, S. Kumar, **V. K. Upadhyay**, Rajan Mishra, Brijesh Kumar and S. K. Soni “Generalised Asymptotic Frame-work for Double Shadowed κ - μ Fading with application to wireless communication and diversity reception”, *Wireless Network*, 2022 **(I.F.-2.701)**
7. P. Singh, S.K.Soni, **V.K. Upadhyay**, Anupam Sahu, ” Formulation Of Analytical Results For Channel Capacities Over Lognormal Shadowed Generalized Fading Models ” *Journal of Optoelectronics Laser*, 41(5), 347-359, 2022.
8. **V.K. Upadhyay**, S. K. Soni, and N.K.Tiwari, “Reliability analysis of cascaded η – μ fading channels,” *Transactions on Emerging Telecommunications Technologies (ETT)*, 2022. **(I.F.-3.310)**
9. M.D.Gupta, R.K.Chauhan, & **V. K. Upadhyay** (2023). Analyses of Reconfigurable Chaotic Systems and their Cryptographic S-box Design Applications. *Chaos Theory and Applications*, 5(3), 219-232. <https://doi.org/10.51537/chaos.1285094>

National Journals (03):

1. Pateshwari Singh, V. K. Upadhyay, P. S. Chauhan, S. K. Soni, “Optimal Simultaneous Power and Rate Adaption of Communication System over Inverse Gamma Shadowed Channels,”. *Journal of Operating Systems Development & Trends*, 2019; 6(1): pp. 23–26 (ISSN: 2454-9355)
2. Ajay Kumar Yadav, **V K Upadhyay**, Dileep Kumar Yadav, “Design of a Wideband Bandpass Filter using Two Cross-Coupled Three Short Ended Section,” *i-Manager's Journal on Wireless Communication Networks*, Vol. 5, No. 01, pp. 29-33, 2016. (ISSN Online: 2320-2351)

3. **V K Upaddhyay**, Gagandeep Bharti, BS Rai, "Compact Wide-Band BPF Using Short Ended Uniform Impedance Resonator," *i-Manager's Journal on Communication Engineering and Systems*, Vol. 05, No. 1, Jan- 2017, pp. 13-16. (ISSN: 2277-5242)

Book Chapters (02):

1. **V. K. Upadhayay**, P. S. Chauhan and S. K. Soni, " Ergodic Secrecy Capacity Analysis over Composite Weibull/Inverse Gamma Fading Channel," VLSI, Microwave and Wireless Technologies, Lecture Notes in Electrical Engineering 877, 2022.
2. Vinay Singh, Brijesh Kumar Maurya, Praveen Kumar Rao, **V. K. Upaddhyay**, "Triple Band Semi-Fractal based Antenna for wireless Applications in S, C and X bands VLSI, Microwave and Wireless Technologies, Lecture Notes in Electrical Engineering 877, 2022

International Conferences (06):

1. **V. K. Upadhaya**, P. S. Chauhan and S. K. Soni, "Effective Capacity Analysis over Generalized α - η - μ fading channel," 2019 International Conference on Electrical, Electronics and Computer Engineering (UPCON), Aligarh, India, 2019, pp. 1-3, doi: 10.1109/UPCON47278.2019.8980264.
2. **V. K. Upaddhyay**, P. S. Chauhan, S. K. Soni and B. Mishra, "On the Performance Analysis of Cognitive Radio Based Wireless System Over Weibull-Inverse Gamma Composite Fading Channel," 2020 International Conference on Electrical and Electronics Engineering (ICE3), Gorakhpur, India, 2020, pp. 484-488, doi: 10.1109/ICE348803.2020.9122804.
3. P. S. Chauhan, S. Kumar, S. K. Soni, **V. K. Upaddhaya** and D. Pant, "Average Channel Capacity over Mixture Gamma Distribution," 2020 International Conference on Electrical and Electronics Engineering (ICE3), Gorakhpur, India, 2020, pp. 420-424, doi: 10.1109/ICE348803.2020.9122966.
4. A. Pandey, A. Sahu and **V. K. Upaddhyay**, "BER Analysis of Aperture Averaged Exponentiated Weibull Distribution," 2020 International Conference on Electrical and Electronics Engineering (ICE3), Gorakhpur, India, 2020, pp. 541-544, doi: 10.1109/ICE348803.2020.9122892.
5. P. Singh, R. Maurya, **V. K. Upaddhyay**, P. S. Chauhan and S. K. Soni, "Effective Capacity Analysis of Wireless System over α - η - μ /Lognormal and α - k - μ /Lognormal Distribution," 2020 International Conference on Electrical and Electronics Engineering (ICE3), Gorakhpur, India, 2020, pp. 471-474, doi: 10.1109/ICE348803.2020.9122836.
6. J. Tiwari, **V. K. Upaddhyay**, P. S. Chauhan and S. K. Soni, "Effective Capacity Analysis Over Generalized α - k - μ fading channel," 2020 International Conference on Electrical and Electronics Engineering (ICE3), Gorakhpur, India, 2020, pp. 481-483, doi: 10.1109/ICE348803.2020.9122838.