Dr. Gaurav Bhandari

(PhD, M.Tech (Gold Medalist), B.Tech

H.No. 94 PrempurMafi, Kaulagarh,
Dehradun, Uttarakhand
Ph No.:- 08218286918
EMAIL:- gaurav.bhandari@iudehradun.edu.in, gaurav.bhandari0071@gmail.com

CAREER OBJECTIVE:-

To work with a reputed organization, which broadens my perspective and give me adequate opportunity to exploitmy innate potential and experience so that I utilize the Knowledge which I have agglomerated till now.

PROFESSIONAL RESPONSIBILITIES:-

- IQAC Coordinator, ICFAI Tech School
- Website coordinator, ICFAI University, Dehradun
- Digital Media coordinator, ICFAI University, Dehradun
- Department Coordinator Electronics and Communication, ICFAI Tech School
- Department Coordinator Mechatronics Engineering, ICFAI Tech School
- Apex Committee Member, ICFAI Tech School
- Time Table Coordinator, ICFAI Tech School
- Member of Board of Studies (ECE and Mechatronics Engineering) at ICFAI University, Dehradun

WORKSHOP ATTENDED:-

- 1 day workshop on Virtual Labs sponsored by IIT Delhi held at ICFAI University Dehradun
- 2 Days workshop on Robotics (An Eyantra initiative) at IIT Bombay
- 2 Days Workshop on "Introduction to Robotics" at Shivalik College of Engineering, Dehradun
- 4 Days workshop on soft computing techniques using Matlab through ICT
- 1 Day Workshop on Latex at ICFAI University, Dehradun
- 5 Days Workshop on Teaching Methodology at IFHE Hyderabad

QUALIFICATION:-

- Ph.D.in Electronics and Communication from The ICFAI University, Dehradun .
- Master of Technology *(Gold Medalist)* in Digital Communication from Uttarakhand Technical University, with Aggregate Percentage in M.Tech. 80.2%. with Honors
- Bachelor of Technology in Electronics & Communication from Uttar Pradesh Technical University, With Aggregate Percentage in B.Tech:- 68.1%.

RESEARCH CREDENTIALS:-

- Published paper tittle AI-Enabled Computational Techniques for Cancer Diagnosis in 2021 IEEE 8th Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON).

- Published a Paper title "Scalable Optimized link state heuristic in cross layering with QoS forNGN" in International Journal of Scientific and Technology Research in March 2020.

- Published a paper title a review paper on visible light communication: architecture, standardization,

application and research issues in International Journal For Technological Research In Engineering in 2020.

- Published a paper titled analysis of wireless communication network from 0g to 5g with the future perspectives in in IUDJournal Antardrishti in May 2021.

- Published a Research Pater Title " Aan Analysis of self convolutional windows using Matlab" in IUD Journal Antardrishti in October 2020.

- Presented a paper title "Self Convolution Windows: A critical Analysis" in International conference held at Shiksha "O" anusandhan on 22-23 September 2018.

- Published a paper title "Pulse shape visbile light communication system analysis for out band interference" in International conference held at Shiksha "O" anusandhan on 22-23 September 2018.

- Published a paper entitled "I^{2}SPhybrid pulse shape: Modified I^{2}SP pulse by using weighting technique and it'simpact on SC-FDMA system"in International journal of Computer Science and Engineering (IJCSE), June 2017,

- Published a paper entitled "An Improved Pulse Shape Combined with Companding transform to Optimize SC- FDMA Performance" in International journal of Computer Science and Information security, IJCSIS, Vol. 14 No.11, 2016,
- Published a paper entitled "OBR Analysis in SC-FDMA system using Modified Raised cosine pulse" in Internationaljournal of Advanced Information Science and Technology, IJAIST, August 2016, Vol 52, No.52
- Published a paper entitled "Analyzing the effect of Modulation order and FFT size on PAPR for SC-FDMA and OFDMA system" in International journal IJAEEE Volume 3 No. 3 November 2014

- Published a paper entitled "Analyzing CFO Estimation Techniques Under Different Guard Interval Length For Multicarrier Transmission System" in IJEECS , Volume 4 Special issue (ETET '14)

- Published a paper title "Analyzing the Effect of Modulation Order and Sub-bands on PTS and SLM PAPR Reduction Technique in Various 802.11 Standards Using Different Modulator" in International journal, IJSER Volume 4 issue 5, May 2013.

- Published a Research paper entitled "Comparative Study and Survey between Intercarrier Interference Reduction Technique "in International journal, IJSER Volume 4, Issue 3, March 2013 Edition.

- Published a Research paper entitled "Review and survey of optimum clustered pilot sequence for OFDM system under rapidly time varying channel "in International journal, IJES Volume 2 issue 1.

Work Profile
Currently Working as an Assistant Professor in ICFAI University Dehradun in Electronics and communication and Mechatronics Engineering Department. I am looking after the Department coordination for Electronics and communication and Mechatronics Engineering where I am looking after the smooth and proper functioning of ECE Department and Mechatronics Department.

SUBJECT TAUGHT:-

B.Tech
1: Basic Electronics
2. Analog Communication
3: Digital Electronics
4: Electronic Devices and Circuits
5. Communication
6. Signals and systems
7: Semiconductor Materials & Devices
8. Wireless Communication
9: Optical Fiber Communication
9. Electrical Science-I
10. Digital Communication
11. Data Communication Systems
12. Fundamental of Electrical Engineering
13. Digital Signal Processing
14. Spread Spectrum Systems
15. Fundamental of Electrical Engineering

M.Tech
1. Information theory and coding
2. Spread Spectrum System

ELECTRONICS COMPETENCY:-
- Ph. D Thesis:- Efficient Techniques to Reduce OBR for SC-FDMA Based Cellular System.
- M.Tech Project:- Performance Analysis of OFDM-QPSK under AWGN & Rayleigh fading.
- B.Tech Project:- Implementing Basic Time Division Time Switch using VHDL.
- Industrial Training:- 6 Weeks Training on Networking at ONGC(Tel Bhavan).

COMPUTER COMPETENCY:-

- Languages Known:-   C, MATLAB, HFSS, Keil software, Arduino, Proteus
- Operating Systems:-   Windows 98/2000/ XP, Linux
- Electronics Software:- Electronics workbench, Circuit maker software, Modelsim

PROJECT GUIDED:-

Ph.D (supervisor):-03   **M.Tech:-**02   **B.Tech**:-12

I Declare that the Information quoted above is true to best of my knowledge

Place: - Dehradun   **Dr. GAURAV BHANDARI**