

**UNIVERSITY INSTITUTE OF ENGINEERING & TECHNOLOGY PANJAB  
UNIVERSITY, CHANDIGARH – 160014**

**FACULTY PROFILE**



1. Name: Dr. Neeraj Sharma
2. Designation: Assistant Professor (E.C.E. Branch)
3. Date of Birth: 15-02-1983
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5. Educational background

| Degree           | Institute Name                                      | Year      |
|------------------|---|-----------|
| B.Tech.          | I. K. Gujral Punjab Technical University, Jalandhar | 1999-2003 |
| M.E.<br>(E.C.E.) | Panjab University, Chandigarh                       | 2005-2007 |
| Ph.D.            | Panjab University, Chandigarh                       | 2016-2021 |

6. Professional background

| Designation         | Institute Name                                     | Duration               |
|---------------------|--|------------------------|
| Assistant Professor | Thapar Institute of Engg. & Tech. Patiala, Punjab. | July 2007 to June 2008 |
| Assistant Professor | U.I.E.T., Panjab University, Chandigarh.           | October 2008-          |

7. Main area of work: Optical communication, MEMS & Microsystems
8. Google Scholar Profile: <https://scholar.google.co.in/citations?user=vfvLWxsAAAAJ&hl=en>
9. Scopus Author Profile: [www.scopus.com/authid/detail.uri?authorId=57199924858](http://www.scopus.com/authid/detail.uri?authorId=57199924858)
10. Selected Publications

- I. Neeraj Sharma, Sunil Agrawal, Vinod Kapoor, Performance optimization of OADM based DP-QPSK DWDM optical network with 37.5 GHz channel spacing, *Optical Switching and Networking*, Volume 40, 2021.

- II. Neeraj Sharma, Sunil Agrawal, Vinod Kapoor, Estimation of frequency offset prior to adaptive equalization for improved performance of DP-QPSK DWDM system, *Optical Fiber Technology*, Volume 55, 2020.
- III. Sharma, N., Agrawal, S. & Kapoor, V. Improved adaptive equalization with fixed step size CMA for DP-QPSK DWDM system. *Opt Quant Electron* **52**, 236 (2020).
- IV. kaur, Abhijot, Sharma, Neeraj and Singh, Jatinder. "Selection of suitable wavelengths for the dual-wavelength model of free space optics (FSO) systems for high-speed trains" *Journal of Optical Communications*, vol. , no. , 2020
- V. K. Thakur, N. Sharma and J. Singh, "Performance Analysis of Backward Pumped Raman Amplifier based DWDM System at 40Gb/s," *2020 5th International Conference on Communication and Electronics Systems (ICCES)*, 2020.
- VI. Singh S., Sharma N. (2018) Performance Analysis of COADM-Based Transparent Optical Network. In: Singh R., Choudhury S., Gehlot A. (eds) *Intelligent Communication, Control and Devices. Advances in Intelligent Systems and Computing*, vol 624. Springer, Singapore.
- VII. Sharma, Neeraj; Garg, Roopali; Signal Transmission and Crosstalk Limited All-Optical Networks, *Handbook of Research on Advanced Trends in Microwave and Communication Engineering*, IGI Global, 2017.
- VIII. N. Sharma, R. Vij and N. Badhan, "Enhanced spectral efficiency for intensity modulated DWDM systems," *2015 Twenty First National Conference on Communications (NCC)*, 2015.
- IX. J. Kaur and N. Sharma, "Effects of Amplified Spontaneous Emission (ASE) on NRZ, RZ and CSRZ modulation formats in single channel light-wave system," *2011 International Conference on Emerging Trends in Networks and Computer Communications (ETNCC)*, 2011, pp. 61-64.