

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

**FACULTY PROFILE**



1. Name : PREETI
2. Designation :Assistant Professor
3. Department : Electronics & Communication Engineering
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6. Research Areas : Optical Communication, Optical Bio-sensors
7. Educational Background :

<b>Degree</b>	<b>Institute Name</b>	<b>Year of Passing</b>
Ph. D	NIMS University, Jaipur	2013
M.E.(ECE)	NITTTR, Chandigarh	2008
B.E.(ECE)	M.D.U, Rohtak	2003

8. Experience:

<b>Designation</b>	<b>Institute Name</b>	<b>Duration</b>
Assistant Professor	UIET, Panjab University, Chandigarh	Since 2008
Lecturer	Govt. Polytechnic, Ambala City.	1Y 5M
Lecturer	Guru Jambheshwar University, Hisar	2Y 5M

9. List of Publications:

*National Conference*

1. Preeti, B.C. Chaoudhary, "BER estimation and eye diagrams for a digital fiber optic link", National Conference on Wireless and Optical Communication, PEC, Chandigarh,2007.
2. Preeti, B.C. Chaoudhary, " Multimode Fibers and Low Cost Lasers- an Option for Medium Haul Fiber Optic Communication System", National Conference on Advances in Video, Cyber learning and Electronics, NITTTR, Chandigarh, 2008.
3. Swati Sharma, Preeti, " Incoherent Sac Optical CDMA System with Zero Combinatorial Code Set", National Conference on Latest Advancements in Science, Engineering and Research (LASER'11),2011.

*International Conference*

1. Swati Sharma, Preeti, " BER Analysis of Incoherent SAC-OCDMA System using ZVCC in a Noisy Environment", Second International Conference on Advanced Computing & Communication Technologies,2012.
2. Devinder Kumar, Preeti, Jaget Singh," Performance Analysis of PTS for PAPR Reduction in OFDM System using Ant Colony Optimization", International conference on Control, Computing, Communication & Material, , Allahabad,2013.
3. Parul Gaur, Preeti Singh," Various control strategies for medium voltage high power multilevel converters: A Review", RA ECS, Chandigarh, Feb.,2014.
4. Aditi, Preeti Singh, " An Effort to Design a Power Efficient, Long Reach WDM-FSO System", International Conference on Signal Propagation and Computer Technology, Ajmer, July, 2014.

*Journals*

1. Swati Sharma, Preeti, "BER Performance of Zero Vector Combinatorial Code Set For Incoherent SAC-OCDMA, International Journal of Advanced Engineering Sciences and Technologies, Vol.7, No.2, 2011.
2. Swati Sharma, Preeti, " SAC-OCDMA with Zero Vector Combinatorial Code (ZVCC), International Journal of Computer Science and Management Studies, Vol.11, No.2, pp.52-55, 2011.
3. Preeti Sangwan, Zile Singh, , Mohit Rai, , Rekha Thakral, , H.M. Rai, " Development of Optical Biosensor Based on Microbending Technique", International Journal of Latest Research in Science and Technology, Vol.1, No.1,pp.21-24, 2012.

4. Preeti, H.M. Rai," Modeling of Fiber Optic Biosensor to Measure Strain on Bones for Detecting Onset of Osteoporosis", International Journal of Scientific & Engineering Research, Vol.3, No.7,pp.1-3,2012.
5. Preeti Singh, Zile Singh, H.M. Rai, " Effect of Neurons on the Performance of Microbend Optical Biosensor", International Journal of Engineering and Innovative Technology (IJEIT), Vol.1, No.6,pp. 233-236, 2012.
6. Davinder Singh, Preeti Singh," Techniques of Millimeter-wave Signal Generation in ROF Systems: A Review", International Journal of Computer Applications & Information Technology(IJCAIT), Vol.1, No.2,pp.45-49, 2012.
7. Navjot Kaur, Preeti Singh, " A New Method of Image Compression Using Improved SPIHT and MFHWT", International Journal of Latest Research in Science and Technology, Vol.1, No.2,pp.124-126, 2012.
8. Preeti Singh, H.M. Rai," Performance Analysis of Photometric Strain Biosensor for Bones using Artificial Neural Network", International Journal of Computer Application, Vol.54, No.8,pp. 16-19, 2012.
9. Navjot Kaur, Preeti Singh," Enhancement of Compression Ratio and Image Quality using ISPIHT with MFHWT", International Journal of Computer Application, Vol.54, No.8,pp.20-23, 2012.
10. Navjot Kaur, Preeti Singh," Medical Image Compression Using Improved SPIHT and MFHWT", International Journal of Scientific & Engineering Research, Vol.3, No.10,pp.1-4, 2012.
11. Aditi, Preeti Singh, " Submarine Optical Cables as a Key Component in Undersea Telecommunications: A Review" International Journal of Application or Innovation in Engineering & Management, Vol.1, No.4,pp.79-83, 2012.
12. Charu Madhu, Preeti Singh," Transmission Performance Of Soliton WDM Signals: A Review", International Journal of Engineering Research & Technology, Vol.2, No.3,pp.1-4, 2013.
13. Devinder Kumar, Preeti Singh," Complexity Reduction in PTS based OFDM System: A Survey", International Journal of Computer Applications, Vol.69, No.13,pp.10-14, 2013.
14. Mishal Singla, Preeti, Sanjiv Kumar, "Comparative Analysis of EDFA based 64 channel WDM systems for different pumping techniques", International Journal of Scientific & Engineering Research, Vol.5,No.6, pp.66-69, 2014.
15. Mishal Singla, Preeti, Sanjiv Kumar, " Comparative Analysis of EDFA based 32 channels WDM system for bidirectional and counter pumping techniques,"International Journal of Emerging Technologies in Computational and Applied Sciences, Vol.9,No.1, pp.67-70, 2014.

16. Aditi, Preeti Singh, " Aditi, Preeti Singh, " Comparative Analysis of Point to Point FSO System Under Clear and Haze Weather Conditions", *Wireless Pers Commun*, Springer, Vol.78, No.3, pp.67-70, August, 2014.