## Dr. Divya Sharma

House Number : 3/938, Vastu Khand-3, Gomti Nagar, Lucknow Uttar Pradesh.226010		andheld : 8417043723,6283174900 Email: <u>divya.fgiet@gmail.com</u> dsharma.ecd.cf@ietlucknow.ac.in
Objective	To utilize my skills and enhance my potential in today's innovative and challenging era and to intervene student centric learning in the educational environment to make benefitted the concerned organization as well as to me.	
Work Experience	<ul> <li>Currently I am Assistant Professor (contractual ) in Institute of Engineering and Technology, Lucknow since 29 August 2021.</li> <li>3 years post PhD experience in Thapar institute of Engineering &amp; Technology, Patiala, Punjab as Assistant Professor (contractual-III) since 15 May 2018 till 20 May 2021. (Under NIRF 20)</li> <li>1 year experience in Shri Ram Murti Smarak College of Engineering &amp; Technology, Unnao.</li> <li>2.5 years' experience in Institute of Engineering and Technology, Lucknow as Contractual faculty in Electronics &amp; Communication Engineering department.</li> </ul>	
Technical Qualification		
	Bundelkhand Institute of Engineering & Techn M.Tech, [2010 – 2012] Digital Communication, Thesis title: Planner Waveguide using Unconvent Overall Percentage: [76.15%]	
	Feroze Gandhi Institute of Engineering & Tech Bachelor of Technology Electronics & Communication Engineering Overall Percentage: 73.72% [2004-2008]	nnology, Raebareli
Academic Qualification	Jawahar Navodaya Vidyalaya, Raebareli Higher Secondary Examination [Class 12] Central Board of Secondary Education, New Delh Overall percentage: <b>65.8% [2004]</b>	ni
	Jawahar Navodaya Vidyalaya, Raebareli All India Secondary School Examination [Class 1 Central Board of Secondary Education, New Delh Overall percentage: <b>80.8%</b> [2002]	
Journal	<ol> <li>Shikha Devi, Divya Sharma, Y. K. Prajap transmission of 166.5Gb/s PM-8QAM an superchannel for long haul metro network", <i>Systems, vol.</i> 34, no. 7, pp. e4735, 2 <i>https://doi.org/10.1002/dac.4735</i></li> <li>Divya Sharma Y. K. Prajapati B. Tripathi</li> </ol>	nd 222Gb/s PM-16QAM Nyquist-WDM International Journal of Communication 2021. ISSN 1099-1131 (I.F.2.047) DOI:

2. Divya Sharma, Y. K. Prajapati, R. Tripathi, "0.55 Tb/s heterogeneous Nyquist-WDM superchannel using different polarization multiplexed subcarriers", *Photonic Network* 

*Communications*, vol.39, pp.120–128, 2020. *DOI: 10.1007/s11107-019-00872-w ISSN 1572-8188* (I.F. 2.028)

- Divya Sharma, Y. K. Prajapati, R. Tripathi, "Success Journey of Coherent PM-QPSK Technique With Its Variants: A Survey," *IETE Technical Review*. vol. 37(1), pp. 36-55, 2018. DOI:10.1080/02564602.2018.1557569. ISSN 0974-5971 (I.F. 2.2)
- Divya Sharma, Y. K. Prajapati, and Rajeev Tripathi, "Spectrally efficient 1.55 Tb/s Nyquist-WDM superchannel with mixed line rate approach using 27.75 Gbaud PM-QPSK and PM-16QAM," *Optical Engineering*, vol. 57(7), pp. 076102.1-12, 2018, *DOI:* 10.1117/1.0E.57.7.076102. ISSN 1560-2303 (I.F. 1.084)
- Divya Sharma, A. Verma, Y. K. Prajapati, V. Singh, and J.P. Saini, "Forward and backward wave propagation in multilayer planar waveguide using metamaterials layer," *Optical and Quantum Electronics*, vol. 45(2), pp. 105-114. 2013. *DOI 10.1007/s11082-012-9607-7*, ISSN: 0306-8919 (I.F. 2.084)
- Divya Sharma, Shrish Bajpai, Y. K. Prajapati, R. Tripathi, "112 Gb/s Coherent NG-PON2 Downstream Transmission using Advance Polarization Multiplexed Modulation Formats", *Optoelectronics and Advanced Materials-Rapid Communication (OAM-RC)*, Vol. 14 (5-6), pp. 224 232 May-June 2020. ISSN: 20653824 (I.F. 0.445)
- Divya Sharma, Y. K. Prajapati, "Performance Analysis of DWDM System for Different Modulation Schemes Using Variations in Channel Spacing", Journal of optical communication, De Gruyter, vol. 37 (4), pp. 401-413, March 2016. DOI: https://doi.org/10.1515/joc-2016-0011 ISSN 2191-6322 (Scopus indexed)
- Divya Sharma, Y. K. Prajapati, "Analytical study of DWDM optical long haul network with symmetrical dispersion compensation", Indian Journal of Science and Technology, 11(17), pp.1-12, May 2018. DOI: 10.17485/ijst/2018/v11i17/102339, ISSN 0974-5645 (Web of Science indexed)
- S. Bajpai, D. Sharma, M. Alam, V.S. Chandel, A.K. Pandey, and S.L. Tripathi, 2023. Curvelet transform based compression algorithm for low resource hyperspectral image sensors. Hindawi Journal of Electrical and Computer Engineering Volume 2023, pp. 18 pages. *https://doi.org/10.1155/2023/8961271* (Web of Science, Scopus indexed) (2.4)
- Divya Sharma, Vinit Jaiswal, Y. K. Prajapati and Rajeev Tripathi, "Performance Optimization of Carving Signal RZ-DQPSK Modulation Scheme", A. Khare et al. (eds.), Recent Trends in Communication, Computing and Electronics, Lecture Notes in Electrical Engineering vol. 524, pp. 1-7, DOI: 10.1007/978-981-13-2685-1\_3. ISBN 1876-1100 (Book chapter; Scopus indexed)
- Divya Sharma, Shikha Devi, Y. K. Prajapati, "832.5 Gb/s PM-8QAM superchannel with 5 b/s/Hz spectral efficiency", in Harvey D., Kar H., Verma S., Bhadauria V. (eds) Advances in VLSI, Communication, and Signal Processing. Lecture Notes in Electrical Engineering, vol 683. Springer, Singapore. pp. 67-74, 2021. ISBN 978-981-15-6840\_4\_6, 483865\_1\_En, (Book chapter 6; Scopus indexed)
- Divya Sharma, Shivam Singh, and Sofyan A. Taya. "Flexi-Grid Technology: A Necessity for Spectral Resource Utilization." In *Sub-Micron Semiconductor Devices*, pp. 373-388. CRC Press, 2022. 9781003126393
- Shrish Bajpai, Divya Sharma (May 2024) "Moving Towards 3D-Biometric" will be published in "Digital Image Security: Techniques and Applications", DOI : 10.1201/9781003468974-4 (As Book Chapter).

International Conference

- 1. **Divya Sharma**, Y. K. Prajapati, J.P. Saini and Vivek Singh, "Dispersion Characteristics of metamaterial based planar waveguide", International conference on Communication & Electronics (ICCE-2012), 304-307, October, 2012 in KIET, Ghaziabad. ISBN 978-93-81583
- Divya Sharma, J. B. Maurya, Y. K. Prajapati, "Effect of noise on constellation diagram of 100 Gbps DP-QPSK systems under influence of different digital filters", In Microwave and Photonics (ICMAP), International Conference on IEEE, ISM

Dhanbad, pp. 1-2, December, 2015. DOI: 10.1109/ICMAP.2015.7408787.ISBN:978-14673-6898-8

- A. Singh, Divya Sharma, Y. K. Prajapati "Comparison of DPSK and QAM modulation schemes in Passive optical network", In International Conference on Fibre Optics and Photonics, pp. Tu4A-56. Optical Society of America, December 2016. DOI: 10.1364/PHOTONICS.2016.Tu4A.56. ISBN 978-93-81583
- Divya Sharma, Y. K. Prajapati, "Comparative aspect of different multi-channel DWDM optical network", International Conference on Advance in Computing, Control and Communication Technology, (IAC3T) University of Allahabad, vol. 1, pp. 155, March 2016. 9789385926204.
- Divya Sharma, Shrish Bajpai, and Y. K. Prajapati, "Next generation PON using PM-BPSK and PM-QPSK modulation," In Multimedia, Signal Processing and Communication Technologies (IMPACT), 2017 International Conference on, pp. 10-12. IEEE, November, 2017. DOI: 10.1109/MSPCT.2017.8363963. 978-1-5090-6674-2
- Divya Sharma, Y. K. Prajapati, "Terabit nyquist superchannel transmission using PM-QPSK subchannels", In Microwave and Photonics (ICMAP), 2018 3rd International Conference on, pp. 1-2, IEEE, February, 2018. DOI:10.1109/ICMAP.2018.8354503.978-1-5386-0933-0
- Divya Sharma, Y. K. Prajapati "16×40 Gb/s, 32×40 Gb/s And 64×40 Gb/s DWDM Network", in Computational and Characterization Techniques in Engineering & Sciences (CCTES-18) IEEE, 173-176, September, 2018 in Integral University, Lucknow. DOI: 10.1109/CCTES.2018.8674065 978-1-5386-4254-2
- 8. **Divya Sharma**, Y. K. Prajapati and Shrish Bajpai, "Heterogeneous N-WDM superchannel transmission," Proceedings of Photonics-2018, 12-15 December 2018 in IIT Delhi, pp. FP152, *978-93-88653-41-1*.
- S. Devi, Divya Sharma, & Y. K. Prajapati, "5× 222 Gb/s PM-16QAM Nyquist-WDM Superchannel," International Conference on Sustainable Computing in Science, Technology & Management (SUSCOM-2019) Available at SSRN 3351800, 2019.
- Reviewer of Journals Silicon, Indian Journal of Physics, Journal of Low Temperature Physics, Microwave and optical technology letters
- TechnicalLanguages : MATLABSkill SetSimulators : Multisim , Rsoft Optsim, Optisystem, Comsol<br/>Package : MS Office
- Training Did summer training at BSNL, Raebareli during second year in B.Tech.

Did summer training at "IGRUA airfield, Fursatganj, Raebareli in Radio shop" on during pre-final year in B.Tech. Prepared summer training report on "Study of Navigational Instruments".

- Awards and Honors Invited talk on "Flexi grid Technology" in Two-Week Equivalent Blended Faculty Development Programme on "Recent Trends in Communication and Computational Technologies" on 12th September to 10th October 2022, at Integral University Lucknow
  - Invited talk on "Terabit Nyquist Superchannel Transmission using polarization multiplexed subcarriers" in International Conference on Computational and Characterization Techniques in Engineering & Sciences (CCTES-18), 14-15 September, 2018, at Integral University Lucknow
  - Session chair in International Conference on Computational and Characterization Techniques in Engineering & Sciences (CCTES-18) 14-15 September, 2018, at Integral University Lucknow

	<ul> <li>Receiving fellowship under Visveswaraya scheme from DEITY, Government of India during my PhD.</li> <li>Received MHRD assistantship during M. Tech studies at Bundelkhand Institute of Engineering &amp; Technology, Jhansi.</li> </ul>	
Achievements	<ul> <li>GATE 2010 qualified with score 364 and all India rank 11661 in electronics and communication.</li> <li>UGC NET June 2013 qualified for lectureship with 63.43% in electronic science</li> </ul>	
Hobby	Composing and reciting poetries	
Co - Curricular Activities	<ul> <li>Participation in school and college level sports and cultural activities</li> <li>Duet Anchoring in few competitive events</li> </ul>	
Personal Details	Date of Birth:30/11/1987Gender:FemaleMarital Status:MarriedNationality:IndianLanguages:English & Hindi	
References	References 1. Prof. Subodh Wairya, Head, ECD, IET, Lucknow UP.	
3. Dr. Neelam Srivastav, Professor, ECD, IET Lucknow, UP.		
4. Dr. Y.K. Prajapati, Professor, ECED, MNNIT, Allahabad ,Prayagraj UP		
I hereby declare that the above furnished details are true and correct to the best of my knowledge.		

Date: 18/4/2024

Place: Lucknow

(Divya Sharma)

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