

Name of Teaching Staff	:	Dr. Sajjan Kumar Jha
Designation	:	Assistant Professor
Department	:	Electronics & Telecommunication Engineering
Date of Joining the Institution	:	17.08.2026
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Google Scholar Link	:	https://scholar.google.com/citations?user=1R4oMCEAAAAJ&hl=en
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ORCID		0000-0001-7576-0424
Qualifications with Class / Grade	:	1. Ph.D. in Electronics and Communication Engineering, National Institute of Technology Patna, Bihar, India in 2024 2. M.E. – Electronics and Communication Engineering, Birla Institute of Technology Mesra, Ranchi, Jharkhand in 2019 3. B.E. (Electronics Engineering) from University of Mumbai in 2016.
Total Experience in Years	:	Teaching: 1 Years 1. Assistant Professor, D.J. Sanghvi College of Engineering from 17.08.2026 to till date. 2. Assistant Professor, GHRCEM Pune, from 3.09.2024 to 7.08.2025 Research: 1. Research Associate, Indian Institute of Technology Kharagpur, from 10.08.2025 to 11.08.2026
Papers Published in Journal:	:	<u>International: 9</u> [1] Sajjan Kumar Jha, G. Varshney and R. Kumar, "Multiple Fano Resonances in Plasmonic Waveguide-Based Cavity and Detection of Pathogenic Virus", in IEEE Sensors Journal, vol. 23, no. 13, pp. 14049-14056, 1 July1, 2023, doi: https://doi.org/10.1109/JSEN.2023.3276950 (Published) [2] Sajjan Kumar Jha, G. Varshney and R. Kumar, "Generation of Multiple Plasmonic Fano Resonances and Detection of Distinct Analytes," in IEEE Photonics Technology Letters, vol. 36, no. 2, pp. 103-106, 15 Jan.15, 2024, doi: https://doi.org/10.1109/LPT.2023.3332816 . (Published) [3] Sajjan Kumar Jha, G. Varshney and R. Kumar, "Levenberg-Marquardt Validation of Multiple Fano Resonances in Plasmonic Cavity for Adrenal/Breast Cancer Detection," in IEEE Transactions on Nanotechnology, vol. 23, pp. 352-360, 2024, doi: https://doi.org/10.1109/TNANO.2024.3385854 (Published) [4] Sajjan Kumar Jha, G. Varshney and R. Kumar, "Excitation of Multiple Fano Resonances in a Plasmonic Device and Carcinoma Detection," in IEEE Transactions on Plasma Science, vol. 52, no. 7, pp. 2998-3005, July 2024, doi: https://doi.org/10.1109/TPS.2024.3410042. (Published)

Papers Presented in Conferences	[1] Sajjan Kumar Jha, Gaurav Varshney, Rabindra Kumar, “Dual Fano Resonances Based MIM Plasmonic Waveguide with Concentric Ring Resonator”, 2022 URSI Regional Conference on Radio Science (RCRS), IIT Indore, India, December 01-04, 2022 (Presented) [2] Sajjan Kumar Jha, G. Varshney and R. Kumar, "Terahertz Circular Microstrip Patch Antenna for Mode Suppression," 2022 5th International Conference on Multimedia, Signal Processing and Communication Technologies (IMPACT), Aligarh, India, 2022, pp. 1-3, doi: https://doi.org/10.1109/IMPACT55510.2022.10029098 (Published) [3] Sajjan Kumar Jha, Gaurav Varshney, Rabindra Kumar, “Double Circular Ring Resonator Side Coupled to MIM Waveguide based Fano Resonance”, International Conference on “Frontiers in Terahertz Technology and Applications (FTTA-2021), CSIR-National Physical Laboratory, New Delhi, India, December 09-11, 2021 (Presented) [4] Jha, Sajjan Kumar, Suraj, P., Badhai, R.K. (2021). Bow-Tie Shaped Meander Line UWB Antenna for Underwater Communication. In: Gupta, D., Khanna, A., Bhattacharyya, S., Hassanien, A.E., Anand, S., Jaiswal, A. (eds) International Conference on Innovative Computing and Communications. Advances in Intelligent Systems and Computing, vol 1165. Springer, Singapore. https://doi.org/10.1007/978-981-15-5113-0_91 (Published)	
Area of Specialization	Electromagnetics, Nanophotonic and Optical Devices	
PhD Guide? Give field & University	:	Field: University:
PhDs / Projects Guided	:	PhDs : Projects at Masters level:
Books Published / IPRs / Patents	:	[1] Sajjan Kumar Jha, Gaurav Varshney and Rabindra Kumar, “Metal-Insulator-Metal Plasmonic Waveguide Structure”, Patent Application No.: 202331007590, Patent No. 445363, Indian Patent Office, Granted on: 17 August, 2023. (Granted) [2] Aadinath Karale, Shivprasad Patil, Aditya Patil and Sajjan Kumar Jha, “Electromagnetic Breast Cancer Detection”, Registration Number: L-157067/2024, Granted on 21/11/2024 [3] Prachi Ghogare, Atharva Hadole, Prasad Ratnaparkhi, Pruthviraj Kakuste and Sajjan Kumar Jha, “Polaritonically Engineered Device”, Registration Number: - LD-28914/2025-CO, Granted on 22 August 2025 [4] Vivek Sonwane, Sakshi Biradar, Utkarsha Bhamble and Sajjan Kumar Jha, “Kuhn Tucker Microstrip Multimodal Sensing”, Indian Copyrights, Registration Number: LD-29714/2025-CO, Date of Filing: - 25/07/2025. (Granted)
Professional Memberships	:	
Consultancy Activities	:	
Awards	:	
Grants fetched	:	

Interaction with Professional Institutions	:		
Subjects Taught		<u>UG Level:</u> Electronic Devices and Circuits <u>PG Level:</u>	
Projects Guided	:	<u>UG Level:</u> <u>1.</u> <u>2.</u> <u>PG Level:</u> <u>1.</u> <u>2.</u>	
Recommended Students for Higher Education		<u>Name of the Student</u>	<u>University/Industry</u>
Institute/Department Responsibility handled:		➤ ➤	
Pedagogy Development			