DR. PRINCE JAIN

Assistant Professor (Research Cadre) | Top 2% Scientists Worldwide, 2025

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ACADEMIC DETAILS:

- **Ph.D.** 2022: Punjab Engineering College (Deemed to be University), Chandigarh, India (9/10 CGPA)
- **M.E. (Electronics)** 2015: Punjab Engineering College (Deemed to be University) Chandigarh, India (9.12/10 CGPA)
- **B. Tech. (ECE):** 2012 Arya College of Engineering & I.T., Jaipur, India (72.71 % **(Honors)**)
- **Diploma (Electronics):** 2009 Vidya Bhawan Polytechnic College, Udaipur, India (63.99 %)

WORK EXPERIENCE

- **Assistant Professor (Research Cadre)**, Parul University, Vadodara, Gujarat, India (01.07.2022 to till now)
- **Assistant Professor**, Chandigarh University, Mohali, Punjab, India (14.08.2021 to 29.06.2022)
- **Teaching Assistant**, Punjab Engineering College (Deemed to be University) Chandigarh, India (30.07.2015 to 29.07.2020)

EDITORIAL MEMBER

- Editor, Editorial Board Member of **Scientific Reports, Nature** (SCIE/Scopus) (IF: 3.8)
- Academic Editor, Editorial Board Member of **International Journal of Antennas and Propagation** (SCIE/Scopus) (IF: 1.1)
- Academic Editor, Editorial Board Member of **PLOS ONE** (SCIE/Scopus) (IF: 2.9)
- Academic Editor, Editorial Board Member of **Journal of Electrical and Computer Engineering, Wiley/Hindawi** (ESCI/Scopus) (IF: 1.4)
- Editor, Editorial Board Member of **Discover Applied Sciences, Springer Nature** (ESCI/Scopus) (IF: 2.6, 2022)
- Guest Editor of the Special Issue on "*Advancing Clinical Diagnosis with Artificial Intelligence: Applications, Challenges, and Future Directions*" **Diagnostics, MDPI** (SCIE) (IF: 3.0)
- Topical Advisory Panel Member of **Micromachines** for Materials and Processing Section, **MDPI**.
- Topical Advisory Panel Member of **Materials** for Optical and Photonic Materials Section, **MDPI**.
- *"Decentralized Futures: Navigating the Integration of Blockchain Technology with Artificial Intelligence"* **CRC Press, Taylor and Francis Group** edited by A. Panigrahi, A. Pati, **P. Jain**, H. Liu (Scopus Indexed).
- Book Editor, "*Responsible Artificial Intelligence*" by **CRC Press, Taylor and Francis Group** (Scopus Indexed).

FELLOWSHIPS/ACHIEVEMENTS

- **Top 2% Scientists Worldwide (Elsevier–Stanford, 2025)**
- **Top Performing Mentor**, NPTEL–SWAYAM (IIT Madras), for the course *"Introduction to Internet of Things"*, July–December 2025.
- **Doctor of Philosophy (Ph.D.):** Visvesvaraya Ph.D. Fellowship Scheme, Ministry of Electronic and Information Technology (MeitY), Government of India (2015-2020)
- **Masters of Engineering (M.E.):** GATE Fellowship, MHRD, Govt. of India (2013-2015)

RESEARCH AREAS:

Machine Learning, Artificial Intelligence, Nanotechnology, and Biomedical Signal Processing, Metamaterial Absorbers/Antennas at RF, THz, and Visible Frequencies.

RESEARCH PROJECTS (Sanctioned & Ongoing)

Extra-Mural Research Projects

- Design and development of metamaterial based massive MIMO antenna using machine learning beyond 5G applications **(Sanctioned & Ongoing)**
  Scheme: CSIR-ASPIRE, Proposed Amount: 31,32,000 INR

Intra-Mural Research Projects (Parul University) **(Ongoing)**

- Development of Biochar/$CaCu_3Ti_4O_{12}$/$CuFe_2O_4$ Nanofillers-Doped Hybrid Epoxy Nanocomposite materials for Dielectric and Electromagnetic Shielding Application.
  Sanctioned grant: 250,000 INR

- Machine Learning Assisted Dynamic Cleaning Frequency Estimator for Solar Panels.
  Sanctioned grant: 100,000 INR

RESEARCH PUBLICATIONS (TOTAL PUBLICATIONS: 104)

Google Scholar: https://scholar.google.co.in/citations?user=iaDHE9wAAAAJ&hl=en

Citations: 1812	h-index: 24	i10-index: 54	Cumulative IF: 216.6

Web of Science Publications: 67	**IEEE Transactions: 2**
SCI Indexed Publications: 55	**Scopus Indexed Publications: 97**
Book Chapters: 4	**Design Patents: 6**

Journals (SCI Journals)

1. H. Chhabra, R. Vempati, U. Chauhan, **P. Jain**, R. K. Tripathy, L. D. Sharma, "Automated Human Emotion Recognition from EEG Signals using Chaotic Local Binary Pattern and Ensemble Learning" *International Journal of Machine Learning and Cybernetics*, 2025. (**Q1-SCI, IF: 2.7**) (Accepted).

2. G Chamundeswari, R. R. Dornala, C. K. Reddy. M, **P. Jain***, K. Prakash, "Machine Learning-Driven Design of Broadband, Polarization-Insensitive Terahertz Metamaterial Absorber" *Journal of Electronic Materials*, December 2025. (Q2-SCI, IF: 2.5) https://doi.org/10.1007/s11664-025-12587-y

3. **P. Jain**, J. Saxena, A. Joshi, V. Gorbachenko, A. Kuzmin "Advancing Machine Learning tools for Early Prediction and Clinical Diagnosis of Pre-eclampsia," *Pregnancy Hypertension: An International Journal of Women's Cardiovascular Health*, vol. 42, p. 101269, December 2025. (Q1-SCI, IF: 2.9) https://doi.org/10.1016/j.preghy.2025.101269

4. S. Biswas, P. K. Sahoo, B. Kumar, A. Rath, **P. Jain***, G. Panda, H. Liu, X. Wang, "Hybrid Machine Learning Models for Enhanced Arrhythmia Detection from ECG Signals Using Autoencoder and Convolution Features" *PLOS ONE*, vol. 20, no. 12, p. e0334607, 2025. (Q1-SCI, IF:2.6) https://doi.org/10.1371/journal.pone.0334607.

5. P. M. Prajapati, S. Thakor, **P. Jain**, V. A. Rana, T. R. Pandit, "Investigation of Dielectric Studies of Paracetamol-Diethylamine Solutions: Experimental and Machine Learning Approach", *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, Vol., 345, p. 126767, July 2025. (**Q1-SCI, IF: 4.6**). https://doi.org/10.1016/j.saa.2025.126767

6. M. S. Rathore, A. P. Singh, V. Madhani, S. Thakor, **P. Jain**, A. Joshi, C. R. Vaja, "Influence of $KMnO_4$ Concentration on the Physical and Dielectric Properties of Potassium Ion Conducting PVdF-HFP Polymer Electrolytes", *Journal of Electronic Materials,* vol. 54, pp. 8664-8678, July 2025. **(Q2-SCI, IF: 2.5)** https://doi.org/10.1007/s11664-025-12218-6

7. K. Thakkar, V. Singh, P. Sharma, **P. Jain**, A. Jyoti, A. Kumar, S. Mehta, A. Singh, M. Singh, J. Saxena, "Bifunctional Phyto-Synthesized Nano Silver for Mitigating Salinity Induced Dormancy and Associated Fungal Infections During Seed Germination in Brassica juncea with Integration of Machine Learning Based Predictive Modeling" *Applied Biochemistry and Biotechnology* (ISSN: 0273-2289), vol. 197, pp. 5956-5991, June 2025. (**Q2-SCI, IF: 3.3**) https://doi.org/10.1007/s12010-025-05301-5.

8. U. Panigrahi, P. K. Sahoo, M. K. Panda, S. R. Parija, **P. Jain**, L. Lu, H. Liu, "An Enhanced Artificial Learning Framework for Moving Object Detection in Challenging Video Scenes," *Alexandria Engineering Journal*, Vol. 129, pp. 329-345, June 2025. (**Q1-SCI, IF: 6.8**) https://doi.org/10.1016/j.aej.2025.05.082.

9. P. Bhatt, **P. Jain**, A. Joshi, "Machine Learning-Assisted Multi-Band Metamaterial Absorber for Terahertz Sensing and Gas Detection" *Physica Scripta* (ISSN: 0031-8949), vol. 100, no. 7, p. 075530, June 2025. (**Q2-SCI, IF: 2.6**) https://doi.org/10.1088/1402-4896/ade0fe.

10. A. Shukla, S. Thakor, **P. Jain**, J. Pathak, A. Joshi, "Feasibility study of Micro-Machining on Micro-EDM for PMMA/MWCNT/Ag Hybrid Nanocomposites Synthesis and Characterization," *Journal of Polymer Research* (ISSN: 1022-9760), vol. 32, p. 192, May 2025. (**Q2-SCI, IF: 2.8**) https://doi.org/10.1007/s10965-025-04423-y.

11. R. Patel, R. Gupta, **P. Jain**, "Efficient Design and Implementation of High-Speed TRNG using Ring oscillators," *IETE Journal of Research,* May 2025. (**Q2-SCI, IF: 1.3**) https://doi.org/10.1080/03772063.2025.2501178.

12. S. Thakor, A. Joshi, H. Patel, **P. Jain**, M. Khan, K. Sruthi, M. Soni, C. R. Vaja, "Machine learning-assisted prediction and optimization of dielectric properties in epoxy resin nanocomposites," *Macromolecular Research*, vol. 33, pp. 1349-1358, May 2025. (**Q2-SCI, IF: 3.4**) https://doi.org/10.1007/s13233-025-00418-2.

13. S. Thakor, **P. Jain**, A. Joshi, C. R. Vaja, S. Parikh, P. Panchal, "Characteristics of Nanoepoxy Composite through Structural, Thermal, and Machine Learning-Enhanced Dielectric Analysis" *Journal of Polymer Research*, vol. 32, p. 178, May 2025. (**Q2-SCI, IF: 2.8**) https://doi.org/10.1007/s10965-025-04410-3.

14. S. Bodla, **P. Jain**, A. Khanra, C. Sharma, A. Jyoti, S. D. Purohit, H. Singh, A. Singh, J. Saxena, "Biomimetic chitosan-based hydrogels for sustainable wound healing with AI/ML insights", *IEEE Open Journal of Engineering in Medicine and Biology*, vol. 6, pp. 450-458, April 2025. (**Q1-SCI, IF: 2.9**) https://doi.org/10.1109/OJEMB.2025.3562382

15. A. B. Kathole, V. Kumar Singh, A. Goyal, S. Kant, A. S. Savyanavar, S. A. Ubale, **P. Jain**, M. T. Islam, "Novel load balancing mechanism for cloud networks using dilated and attention-based federated learning with Coati Optimization," *Scientific Reports*, Nature, vol. 15, p. 15268, May 2025. (Q1-SCI, IF: 3.8). https://doi.org/10.1038/s41598-025-99559-8

16. N. A. Chaudhary, **P. Jain**, S. Thakor, V. A. Rana, A. N. Prajapati, "Exploring molecular interactions and dielectric relaxation in n-octanol/DMF binary mixtures: a machine learning-enhanced VNA study," *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, Vol. 339, p. 126271, October 2025. (**Q1-SCI, IF: 4.6**) https://doi.org/10.1016/j.saa.2025.126271.

17. R. Anand, A. Rath, P. K. Sahoo, **P. Jain**, G. Panda, X. Wang, H. Liu, "Winograd Transform Based Fast Detection of Heart Disease using ECG Signals and Chest X-Ray Images," *IEEE Access*, vol. 13, pp. 57119-57140, April 2025. (**Q1-SCI, IF: 3.6**) https://doi.org/10.1109/ACCESS.2025.3555518.

18. J. Pathak, U. Joshi, **P. Jain**, A. Joshi, S. Thakor, S. Parikh, M. S. Rathore, "Dielectric Properties of Green Synthesized Ag-Doped ZnO NPs in Epoxy Resin Polymer Nanocomposites," *Journal of Polymer Research*, vol. 32, p. 103, March 2025. (**Q2-SCI, IF: 2.8**) https://doi.org/10.1007/s10965-025-04334-y.

19. N. A. Shiferaw, Z. L. Mayaluri, P. K. Sahoo, G. Panda, **P. Jain**, A. Rath, M. S. Islam, M. T. Islam, "Handwritten Amharic Character Recognition through Transfer Learning: Integrating CNN Models and Machine Learning Classifiers", *IEEE Access*, vol. 13, pp. 52134-52148, March 2025. (**Q1-SCI, IF: 3.6**) https://doi.org/10.1109/ACCESS.2025.3553199.

20. B. Sahu, A. Panigrahi, A. Pati, M. N. Das, **P. Jain**, G. Sahoo, H. Liu, "Novel Hybrid feature selection using Binary Portia Spider Optimization Algorithm and Fast mRMR" *Bioengineering*, vol. 12, no. 3, p. 291, March 2025. (**Q2-SCI, IF: 3.8**). https://doi.org/10.3390/bioengineering12030291.

21. S. Thakor, A. Joshi, **P. Jain**, M. Tannarana, C. R. Vaja, B. Shingala, P. Panchal, P. Sharma, "Characterization of Polymethyl Methacrylate-Multi-Walled Carbon Nanotubes Doped Epoxy Resins through Infrared, Ultraviolet and Machine Learning-Enhanced Dielectric Spectroscopy" *Journal of Macromolecular Science, Part B,* March 2025. (**Q3-SCI, IF: 1.2**). https://doi.org/10.1080/00222348.2025.2480470.

22. P. Sharma, M. B. Solanki, S. Thakor, **P. Jain**, S. J. Yadav, D. V. Shah, C. Vaja, "Comprehensive Study of Spinel Nanoparticles Using Experimental, Theoretical, and Machine Learning Methods," *Physica B: Condensed Matter*, Vol. 699, p. 416820, February 2025. (**Q2-SCI, IF: 2.8**). https://doi.org/10.1016/j.physb.2024.416820

23. Arkdev, V. Kumar, G. Khare, J. Giri, M. Amir, F. Ahmad, **P. Jain**, S. Anand, "Advancements and Challenges in Microgrid Technology: A Comprehensive Review of Control Strategies, Emerging Technologies, and Future

Directions", *Energy Science & Engineering*, vol. 13, pp. 2112-2134, February 2025. **(Q1-SCI, IF: 3.4).** https://doi.org/10.1002/ese3.2095

24. P. Panda, S. K. Bisoy, A. Panigrahi, A. Pati , B. Sahu, Z. Guo, H. Liu, **P. Jain**, "BIMSSA: Enhancing Cancer Prediction with Salp Swarm Optimization and Ensemble Machine Learning Approaches," *Frontiers in Genetics - Computational Genomics*, vol. 15, January 2025. **(Q2-SCI, IF: 2.8).** https://doi.org/10.3389/fgene.2024.1491602.

25. G. K. Soni, D. Yadav, A. Kumar, **P. Jain**, A. Rathi, "Design and SAR Analysis of DGS Based Deformed Microstrip Antenna for ON/OFF Body Smart Wearable IoT Applications", *Physica Scripta*, vol. 100, no. 1, p. 015536, December 2024. **(Q2-SCI, IF: 2.6).** https://doi.org/10.1088/1402-4896/ad9d89

26. A. Houkan, A. K. Sahoo, S. P. Gochhayat, P. K. Sahoo, H. Liu, S. G. Khalid, **P. Jain**, "Enhancing Security in Industrial IoT Networks: Machine Learning Solutions for Feature Selection and Reduction" *IEEE Access*, vol. 12, pp. 160864-160883, October 2024. **(Q1-SCI, IF: 3.6)** https://doi.org/10.1109/ACCESS.2024.3481459.

27. K. Prakash, N. J. Valeti, **P. Jain**, C. S. Pathak, M. K. Singha, S. Gupta, E. Edri, S. Mukhopadhay "Single Crystal Perovskite Halide: Crystal Growth to Devices Applications," *Energy Technology*, vol. 13, p. 2400618, October 2024. **(Q2-SCI, IF: 3.6).** https://doi.org/10.1002/ente.202400618.

28. V. A. Rana, C. R. Vaja, S. Thakor, **P. Jain**, "Ac/dc conductivity and ML-Based evaluation of electric characteristics in methylene blue solution", *Journal of Molecular Liquids, Elsevier*, vol. 140, p. 125676, September 2024 **(Q1-SCI, IF: 5.2)** https://doi.org/10.1016/j.molliq.2024.125676.

29. **P. Jain**, M. T. Islam, A. S. Alshammari, "Comparative Analysis of Machine Learning Techniques for Metamaterial Absorber Performance in Terahertz Applications", *Alexandria Engineering Journal, Elsevier,* vol. 103, p. 51-59, September 2024. **(Q1-SCI, IF: 6.8).** https://doi.org/10.1016/j.aej.2024.05.111

30. **P. Jain**, U. Joshi, V. Patel, A. Joshi, S. Thakor, "Comparative Analysis of Machine Learning Techniques for Predicting Wear and Friction Properties of MWCNT Reinforced PMMA Nanocomposites," *Ain Shams Engineering Journal*, Vol. 15, no. 9, p. 102895, September 2024. **(Q1-SCI, IF: 5.9**). https://doi.org/10.1016/j.asej.2024.102895

31. T. Pattnaik, P. Kanungo, P. K. Sahoo, T. Kar, **P. Jain**, M. S. Soliman and M. T. Islam, "An efficient Low Complex-Functional Link Artificial Neural Network based framework for uneven light image thresholding" *IEEE Access*, vol. 12, pp. 118315-118338, August 2024. **(Q1-SCI, IF: 3.6)** https://doi.org/10.1109/ACCESS.2024.3447716

32. A. B. Kathole, K. N. Vhatkar, A. Goyal, S. Kaushik, A. S. Mirge, **P. Jain**, M. S. Soliman and M. T. Islam "Secure Federated Cloud Storage Protection Strategy Using Hybrid Heuristic Attribute-Based Encryption with Permissioned Blockchain" *IEEE Access*, vol. 12, pp. 117154-117169, August 2024. **(Q1-SCI, IF: 3.6)** https://doi.org/10.1109/ACCESS.2024.3447829.

33. **P. Jain**, S. Thakor, A. Joshi, K. V. Chauhan, C. R. Vaja, "Machine Learning-Driven Analysis of Dielectric Response in Polymethyl Methacrylate Nanocomposites Reinforced with Multi-Walled Carbon Nanotubes", *Journal of Materials Science: Materials in Electronics, Springer,* vol. 35, p. 1419, July 2024 **(Q2-SCI, IF: 2.8)** https://doi.org/10.1007/s10854-024-13188-x.

34. K. Rawal, D. Patel, P.M. Pataniya, **P. Jain**, A. Joshi, G. K. Solanki, M. Tannarana, "Versatile Photo-Sensing ability of Paper based Flexible 2D-$Sb_{0.3}Sn_{0.7}Se_2$ Photo-detector and Performance Prediction with Machine Learning Algorithm", *Optical Materials, Elsevier*, vol. 152, p. 115547, June 2024 **(Q1-SCI, IF: 4.2)** https://doi.org/10.1016/j.optmat.2024.115547

35. S. Garg, **P. Jain**, S. Garg, B. Sharma, G. Das, N. Sardana, S. Kumar, A. K. Singh, "Compact Polarization-Insensitive Microwave Metamaterial Absorber with Hepta-band Characteristics," *Physica Scripta*, vol. 99, pp. 075541, June 2024. **(Q2-SCI, IF: 2.6).** https://doi.org/10.1088/1402-4896/ad56de

36. P. R. Kumar, B. M. Rao, C. K. R. Maddireddy, S. Thakor, C. R. Vaja, K. Prakash, **P. Jain**, "Dielectric Characterization and Machine Learning-Based Prediction in Polymer Composites with Mixed Nanoparticles" *Journal of Macromolecular Science, Part B*, June 2024 **(Q3-SCI, IF: 1.2)** https://doi.org/10.1080/00222348.2024.2372522

37. A. D. Watpade, S. Thakor, **P. Jain**, P. P. Mohapatra, C. R. Vaja, A. Joshi, D. V. Shah, M. T. Islam, "Comparative Analysis of Machine Learning Models for Predicting Dielectric Properties in MoS_2 Nanofiller-reinforced Epoxy Composites", *Ain Shams Engineering Journal*, vol. 15, no. 6, p. 102754, June 2024. **(Q1-SCI, IF: 5.9)**. https://doi.org/10.1016/j.asej.2024.102754

38. K. N. Shah, **P. Jain**, S. Thakor, V. A. Rana, "Machine Learning Analysis of Low-Frequency Impedance Spectra of Binary Mixtures of Polar and Non Polar Liquids" *Journal of Macromolecular Science, Part B*, June 2024. **(Q3-SCI, IF: 1.2).** https://doi.org/10.1080/00222348.2024.2365119.

39. P. Panchal, B. Shingala, S. Thakor, **P. Jain**, K. N. Shah, A. Joshi, C. R. Vaja, V. A. Rana, "XGBoost Regression Analysis of Dielectric Properties of Epoxy Resin with Inorganic Hybrid Nanofillers," *Journal of Macromolecular Science, Part B*, vol. 64, no. 3, pp. 347–363, May 2024. **(Q3-SCI, IF: 1.2).** https://doi.org/10.1080/00222348.2024.2347746

40. **P. Jain**, J. Yedukondalu, H. Chhabra, U. Chauhan, L. D. Sharma, "EEG-Based Detection of Cognitive Load Using VMD and LightGBM Classifier", *International Journal of Machine Learning and Cybernetics, Springer*, vol. 15, pp. 4193–4210, April 2024. **(Q1-SCI, IF: 2.7)** https://doi.org/10.1007/s13042-024-02142-2

41. P. K. Sahoo, M. K. Panda, U. Panigrahi, G. Panda, **P. Jain**, M. S. Islam, M. T. Islam, "An Improved VGG-19 Network Induced Enhanced Feature Pooling For Precise Moving Object Detection In Complex Video Scenes, *IEEE Access*, vol. 12, pp. 45847-45864, March 2024 **(Q1-SCI, IF: 3.6)** https://doi.org/10.1109/ACCESS.2024.3381612

42. A. Watpade, S. Thakor, P. Sharma, D. Shah, C. R. Vaja, **P. Jain**, "Synthesis, Characterization, and Dielectric Spectroscopy of TiO_2 and ZnO Nanoparticle-Reinforced Epoxy Composites" *Journal of Materials Science: Materials in Electronics*, vol. 35, p. 466, February 2024 **(Q2-SCI, IF: 2.8).** https://doi.org/10.1007/s10854-024-12202-6

43. B. Shingala, P. Panchal, S. Thakor, **P. Jain**, A. Joshi, C. R. Vaja, Siddharth R. K., V. A. Rana, "Random Forest Regression Analysis for Estimating Dielectric Properties in Epoxy Composites Doped with Hybrid Nano Fillers", *Journal of Macromolecular Science, Part B*, vol. 63, no. 12, pp. 1297–1311, February 2024 **(Q3-SCI, IF: 1.2).** https://doi.org/10.1080/00222348.2024.2322189

44. **P. Jain**, H. Chhabra, U. Chauhan, D. K. Singh, T. M. K. Anwer, S. H. Ahammad, M. A. Hossain, A. N. Z. Rashed, "Multiband Metamaterial Absorber with Absorption Prediction by Assisted Machine Learning", *Materials Chemistry and Physics*, *Elsevier,* vol. 307, p. 128180, 2023. **(Q1-SCI, IF: 4.7)** https://doi.org/10.1016/j.matchemphys.2023.128180

45. **P. Jain**, H. Chhabra, U. Chauhan, K. Prakash, A. Gupta, M. S. Soliman, M. S. Islam, M. T. Islam, "Machine Learning Assisted Hepta-band THz Metamaterial Absorber for Biomedical Applications", *Scientific Reports, Nature*, vol. 13, p. 1792, 2023. **(Q1-SCI, IF: 3.8)** https://doi.org/10.1038/s41598-023-29024-x

46. **P. Jain**, H. Chhabra, U. Chauhan, K. Prakash, P. Samant, D. K. Singh, M. S. Soliman, M. T. Islam, "Machine Learning Techniques for Predicting Metamaterial Microwave Absorption Performance: A Comparison", *IEEE Access*, vol. 11, pp. 128774-128783, 2023. **(Q1-SCI, IF: 3.6)** https://doi.org/10.1109/ACCESS.2023.3332731

47. D. K. Singh, K. K. Singh, G. P. Petropoulos, P. B. Shan, **P. Jain**, S. Singh, D. K. Gupta, V. Sood, "Spatiotemporal Vegetation Variability and Linkage with Snow-Hydroclimatic Factors Using Remote Sensing in Western Himalaya", *Remote Sensing*, vol. 15, no. 21, p. 5239, 2023. **(Q1-SCI, IF: 4.1)** https://doi.org/10.3390/rs15215239

48. K. Prakash, S. Bansal, S. Garg, P. Thakur, K. Sharma, **P. Jain**, N. Gupta, S. R. Kasjoo, S. Kumar, A.K. Singh, "Thermoelectric effect in graphene-based three-terminal junction", *IEEE Transactions on Nanotechnology*, vol. 20, pp. 733-738, 2021. **(Q2-SCI, IF: 2.5)** https://doi.org/10.1109/TNANO.2021.3113343

49. **P. Jain**, K. Prakash, N. Sardana, N. Gupta, S. Kumar, A. K. Singh, "Design of an Ultra-thin Hepta-band Metamaterial Absorber for Sensing Applications", *Optical and Quantum Electronics*, vol. 54, pp. 1–14, 2022. **(Q2-SCI, IF: 3.3)** https://doi.org/10.1007/s11082-022-03917-z

50. K. Prakash, S. Bansal, **P. Jain**, S. Garg, G. M. Khanal, S. Kumar, N. Gupta, S. R. Kasjoo, A. K. Singh, "Thermoelectric rectification in graphene based Y-junction", *Micro and Nanostructures*, vol. 167, p. 207242, 2022. **(Q2-SCI, IF: 3.0)** https://doi.org/10.1016/j.micrna.2022.207242

51. K. Prakash, P. Thakur, S. Bansal, S. Garg, **P. Jain**, K. Sharma, N. Gupta, S. R. Kasjoo, S. Kumar, A. K. Singh, "Thermoelectric rectification in Graphene based triangular ballistic rectifier (G-TBR)", *Journal of Computational Electronics*, vol. 20, pp. 2308–2316, 2021. **(Q3-SCI, IF: 2.2)** https://doi.org/10.1007/s10825-021-01794-5

52. **P. Jain**, A. Singh, J. Pandey, S. Bansal, S. Kumar, N. Sardana, N. Gupta, A. K. Singh, "An Ultra-thin Compact Polarization Sensitive Triple-band Microwave Metamaterial Absorber", *Journal of Electronic Materials*, vol. 50, pp. 1506–1513, 2021. **(Q2-SCI, IF: 2.2)** https://doi.org/10.1007/s11664-020-08680-z

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Poster Presentation

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DESIGN PATENTS

1. **Patent Title:** IoT-based Digital Plant Whisperer **(Accepted and Published)**
Design Number: 394138-001 [**Date of Issue:** 16-11-2023]
2. **Patent Title:** Smart Meditation Mat with Adaptive AI Guidance **(Accepted and Published)**
Design Number: 406124-001 [**Date of Issue:** 01/03/2024]
3. **Patent Title:** AI-Powered Intelligent Waste Segregation System **(Accepted and Published)**
Design Number: 404824-001 [**Date of Issue:** 02/04/2024]
4. **Patent Title:** IoT-Enabled Heat Absorber for Industrial Furnaces **(Accepted and Published)**
Design Number: 406123-001 [**Date of Issue:** 05/04/2024]
5. **Patent Title:** Agricultural Input Analyzer **(Accepted and Published)**
Design Number: 404821-001 [**Date of Issue:** 29/05/2024]
6. **Patent Title:** IOT-Based Solar Inverter **(Accepted and Published)**
Design Number: 412377-001 [**Date of Issue:** 29/05/2024]
7. **Patent Title:** AI-Enhanced Window Display System with Environmental Sensing **(Accepted and Published)**
Design Number: 404820-001 [**Date of Issue:** 16/05/2024]
8. **Patent Title:** IOT-Based Solar Power Jacket **(Accepted and Published)**
Design Number: 437591-001 [**Date of Issue:** 26/03/2025]

REVIEWER

1. **IEEE:** IEEE Transactions on Artificial Intelligence; IEEE Transactions on Multimedia; IEEE Transactions on Terahertz Science and Technology; IEEE Transactions on Antennas and Propagation; IEEE Transactions on Neural Networks and Learning Systems ; IEEE Transactions on Industrial Informatics; IEEE Transactions on Circuits and Systems II: Express Briefs; IEEE Transactions on Intelligent Transportation Systems (T-ITS); IEEE Transactions on Dependable and Secure Computing; IEEE Transactions on Industrial Electronics; IEEE Photonics Journal; IEEE Journal of Radio Frequency Identification; IEEE Access; Journal of Lightwave Technology; IEEE Internet of Things Journal; IEEE Sensors Journal; IEEE Journal of Biomedical and Health Informatics

2. **ACS:** ACS Applied Materials & Interfaces; ACS Applied Electronic Materials; ACS Sustainable Chemistry & Engineering; The Journal of Physical Chemistry; ACS Omega; Langmuir; ACS Applied Polymer Materials

3. **Nature:** Scientific Reports

4. **RSC:** Chemical Society Reviews; Journal of Materials Chemistry C

5. **IET:** Electronics Letters; IET Blockchain, IET Networks; Healthcare Technology Letters
6. **Elsevier:** Sensors and Actuators A: Physical; Microchemical Journal; Journal of Alloys and Compounds; Materials Today Chemistry; Chemical Engineering Journal; Alexandria Engineering Journal; Computational Materials Science; Computer Methods and Programs in Biomedicine; Current Applied Physics; Optik; Optical Materials; Photonics and Nanostructures - Fundamentals and Applications (PNFA); Engineering Applications of Artificial Intelligence; Biomedical Signal Processing & Control (BSPC); Optics and Lasers in Engineering; Results in Engineering; Journal of Solid State Chemistry; The European Physical Journal Plus; Physica E: Low-dimensional Systems and Nanostructures; Physica B: Condensed Matter; Machine Learning with Applications.
7. **Springer:** Sensing and Imaging; Journal of Materials Engineering and Performance; International Journal of Energy and Environmental Engineering; Brazilian Journal of Physics; The European Physical Journal – Plus; Journal of Electronic Materials (JEMS); Optical and Quantum Electronics; Circuits, Systems & Signal Processing; Plasmonics; Microsystem Technologies; Journal of Transformative Technologies and Sustainable Development; Architecture, Structures and Construction; Silicon.
8. **IOPscience:** Physica Scripta, Measurement Science and Technology, Semiconductor Science and Technology (SST); Journal of Physics D: Applied Physics; Journal of The Electrochemical Society; Journal of Optics; Japanese Journal of Applied Physics; Engineering Research Express (ERX).
9. **MDPI:** Bioengineering; Big Data and Cognitive Computing; Sensors; Diagnostics, Materials; Applied Sciences; Mathematics; Journal of Marine Science and Engineering; Processes; Buildings; International Journal of Environmental Research and Public Health; International Journal of Topology; Pharmaceuticals, MAKE.
10. **Taylor & Francis:** Journal of Experimental & Theoretical Artificial Intelligence; Computer Methods in Biomechanics and Biomedical Engineering: Nanocomposites; Composite Interfaces; Imaging & Visualization; Electromagnetics; Nondestructive Testing and Evaluation; International Journal of Crashworthiness; International Journal of Ambient Energy; Geosystem Engineering; Journal of Chemical Engineering of Japan; IETE Journal of Research; Cybernetics & Systems; Journal of Civil Engineering and Management; Separation Science and Technology
11. **Wiley:** Macromolecular Materials and Engineering; Polymer Composites; Advances in Polymer Technology; Environmental Progress & Sustainable Energy; Chemical Engineering & Technology; The Canadian Journal of Chemical Engineering (CJCE); ChemistrySelect; Meteorological Applications; Business Strategy and the Environment; Security and Privacy; SPE Polymers; International Journal of Antennas and Propagation; International Journal of RF and Microwave Computer-Aided Engineering; Microwave and Optical Technology Letters; International Journal of Optics; Journal of Clinical Laboratory Analysis; International Journal of Image and Data Fusion; International Journal of Communication Systems; Polymer Engineering & Science; Electronics and Telecommunications Research Institute (ETRI) Journal.
12. **Frontiers:** Frontiers of Materials; Frontiers In Antennas And Propagation, Frontiers in Computational Neuroscience; Frontiers in Human Neuroscience
13. **ACM**: ACM Transactions on Knowledge Discovery from Data (TKDD)
14. **Sage**: Journal of Elastomers and Plastics; Cancer Biotherapy and Radiopharmaceuticals; Journal of Engineering Tribology; Technology and Health Care; Surgical Innovation
15. **AIP:** Journal of Applied Physics; AIP Advances
16. **PLOS:** PLOS One
17. **SPIE:** Optical Engineering; Journal of Nanophotonics
18. **PIER:** Progress in Electromagnetics Research Journal
19. **Emerald:** Sensor Review; World Journal of Engineering
20. **Bentham Science:** Current Medical Imaging; Current Computer Science; Recent Advances in Electrical & Electronic Engineering
21. **DeGruyter:** Chemical Product and Process Modeling; Zeitschrift für Naturforschung A - A Journal of Physical Sciences
22. **CMC**-Computers, Materials & Continua
23. **World Scientific**: Journal of Nonlinear Optical Physics & Materials; Biomedical Engineering: Applications, Basis and Communications

24. Radioengineering
25. Matéria (Rio de Janeiro)
26. JMIR Medical Informatics
27. Xia & He Publishing: Gene Expression
28. **UTHM:** International Journal of Integrated Engineering; Journal of Advancement in Environmental Solution and Resource Recovery; Journal of Sustainable Materials Processing & Management.
29. Journal of Engineering and Technological Sciences **(Scopus Indexed)**
30. International Journal of Advanced Computer Science and Applications (IJACSA)
31. 8th World Engineering Conference on Contemporary Technologies (WECON 2025), Chitkara University, Punjab, India, October 10-11, 2025
32. International Conference on Knowledge Engineering and Information Systems (KEIS-2025), Seshadripuram College, Tumakuru, Karnataka, INDIA, from August 29–30, 2025
33. International Conference on Intelligent Communication Networks and Computational Techniques (ICICNCT-2025), Guru Nanak Dev Engineering College, Bidar, September 5-6, 2025
34. IEEE International Conference on Communication, Computer, and Information Technology (IC3IT-2025), MRIT, Mandya, October 24–25, 2025
35. 2nd IEEE International Conference on Intelligent Algorithms for Computational Intelligence Systems (IACIS-2025), Navkis College of Engineering, Hassan, Karnataka, India, 22nd-23rd August 2025.
36. 2nd International Conference on Software, Systems and Information Technology (SSITCON-2025), Sri Siddhartha Institute of Technology, Tumkur, Karnataka, India, 17th-18th October 2025.
37. IEEE Future Networks World Forum, November 2025, Bangalore, India
38. International Conference on Grid and Parallel Computing (ICGPC 2025), July 2025, Chennai, India
39. International Conference on Electrical and Computer Engineering Researches (ICECER), Gaborone, Botswana, 04-06 December 2024
40. 3rd International Conference on Data Science and Information Systems (ICDSIS-2025), Hassan, India
41. 3rd IEEE International Conference on Data Science and Network Security (ICDSNS-2025), Kalpataru Institute of Technology, Tiptur
42. International Conference on Engineering Trends in Education Systems & Sustainability (ICETESS 2025), JECRC, Jaipur on April 18-19, 2025.
43. 2025 IEEE Space, Aerospace and Defence Conference (SPACE)
44. 5th IEEE India Council International Subsections Conference 2024
45. 2025 IEEE Conference on Technologies for Sustainability (SusTech)
46. 2025 2nd International Graduate Conference on Engineering, Biotechnology, and Computer Science (ETCoS-Grace), Universitas Muhammadiyah Yogyakarta, Indonesia
47. 3rd International Conference on Integrated Circuits and Communication Systems (ICICACS - 2025), Raichur
48. 2024 IEEE International Conference on Electronics, Computing and Communication Technologies (CONECCT)
49. 4th International Conference on Mobile Networks and Wireless Communications (ICMNWC-2024), Karnataka
50. IEEE Energy Conversion Congress and Exposition (ECCE 2024), Phoenix, Arizona, USA
51. IEEE Energy Conversion Congress & Expo (ECCE) 2022, Detroit, Michigan, USA
52. IEEE Energy Conversion Congress & Expo (ECCE) 2023, Nashville, Tennessee, USA
53. Americas Conference on Information Systems, 2022, Minneapolis, USA
54. International Conference on New Energy and Optoelectronic Materials 2023 (NEOM 2023)
55. 11th IEEE Conference on Technologies for Sustainability (SusTech 2023)
56. 5th International Conference on Advances in Distributed Computing and Machine Learning-2024, VIT-AP University, India
57. 4th International Conference on Electronic and Electrical Engineering and Intelligent Systems (ICE3IS 2024), Universitas Muhammadiyah Yogyakarta, Indonesia
58. 4th International Conference on Electrical, Computer and Energy Technologies, 2024, Sydney, Australia
59. 2024 1st International Graduate Conference on Engineering, Biotechnology, and Computer Science (ETCoS-Grace), Yogyakarta, Indonesia

PROFESSIONAL SOCIETIES

- IEEE Professional Member (ID: 93320424)
- International Association of Engineers (IAENG)
- Society of Digital Information and Wireless Communications (SDIWC)

WORKSHOPS, SHORT TERM COURSE, CONFERENCE ORGANIZED:

- **Organizing Chair** & **Publication Chair** of Parul University International Conference on Engineering and Technology (PiCET-2026), Parul University, Vadodara, India (1–2 May 2026).
- **Session Chair & Organizing Chair**, 10th International Conference on Micro-Electronics, Electromagnetics and Telecommunications (ICMEET-2025), 30–31 October 2025, London, United Kingdom.
- **Special Session Chair & Invited Guest**, 13th International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA-2025), London Metropolitan University & University of Greenwich, UK (06–07 June 2025); **Session Title:** AI-Enabled Advanced Materials and Sustainable Engineering.
- **Core Committee Member** of Parul University International Conference on Engineering and Technology (PiCET-2025), Parul University, Vadodara, India (2–3 May 2025).
- **International Technical Committee** of 7th International Conference on Mechanical, System and Control Engineering, November 20-22, 2024, Bangkok, Thailand
- **Technical Committee Member** of 11th IEEE Conference on Technologies for Sustainability (SusTech) 2023
- **Keynote Speaker and Technical Advisor for** International Conference on Recent Trend in Engineering & Technology (ICRTET-2023), organized By Learn and Build By TechieNest Pvt Ltd, during 10-11 June 2023.
- **Technical Program Committee Member** of International Conference on Recent Trends in Engineering & Technology (ICRTET-2023) organized by the Learn and Build by TechieNest held during June 10-11, 2023.
- **Technical Committee Member** of **European Conference on Natural Language Processing and Information Retrieval (ECNLPIR) Hangzhou, China** organized by the International Academy of Science and Engineering for Development held during July 19-21, 2022.
- **Virtual Platform Coordinator** for **IEEE Energy Conversion Congress & Expo (ECCE) 2022, Detroit, Michigan, USA** organized by the IEEE Power Electronics Society and IEEE Industry Applications Society held during October 9-13, 2022.
- **Volunteer** for **IEEE Energy Conversion Congress & Expo (ECCE) 2021, Vancouver, Canada** organized by the IEEE Power Electronics Society and IEEE Industry Applications Society held during October 10-14, 2021.
- **"Semiconductor Technology for Space and Defense Applications"** organized by ECE Department, in technical collaboration with IEEE Chandigarh Subsection & ISSE Chandigarh Chapter on October 19, 2019 at PEC Chandigarh, India.
- "**Recent Advances and Challenges Faced in GaN HEMT**" in ECE Department, PEC Chandigarh in association with IEEE Chandigarh Sub-section and Supported by DRDO, Govt. of India on 19th August 2017.
- "**Nanotechnology for Electronics and Photonics Devices (NanoDev-2016)**" in ECE Department, PEC Chandigarh on 11th-16th July 2016.

WORKSHOPS, SHORT TERM COURSE, WEBINAR ATTENDED:

- **NPTEL–AICTE** Faculty Development Programme certification in '*Introduction to Internet of Things*' (Jul–Oct 2025) with a consolidated score of 76%, issued by IIT Madras
- Participated in the Five-Day National Seminar on '*Mathematical Innovations in Industry: IoT, Automation, and Control Systems*' funded by ANRF, held at Parul University (4–8 Nov 2025).
- Completed the "*NEP 2020 Orientation & Sensitization Program*" with Grade "A+" under the Malaviya Mission Teacher Training Programme (MMTTP) of University Grants Commission (UGC), organized by Malaviya Mission Teacher Training Centre (MMTTC), Shri Mata Vaishno Devi University, Katra, J&K, from 14th-23rd July 2025.
- Faculty Development Program (GURU-DAKSHITA) on "Implementation of National Education Policy 2020: Role of Faculty in Higher Education Institutions" organized by university institute of teachers training and research, Chandigarh University from Dec 20-24, 2021.

- Funding Opportunities in Electronics Engineering on 26th Nov 2021 organized by Semiconductor Research Centre, Department of ECE, PEC Chandigarh in collaboration with IEEE Chandigarh Subsection.
- International colloquium on technology readiness for High Volume Semiconductor Chip manufacturing (FAB) (ICTFAB-2021) held at IIT Mandi, India during Nov 15-16, 2021.
- Short Term Course on Visual Cognition organized by ECE Department, National Institute of Technical Teachers Training and Research Chandigarh from October 04-09, 2021.
- Nanotechnology for Electronic and Photonic Devices (NanoDev-2021) organized by AICTE Training and Learning (ATAL) Academy Online Elementary FDP at PEC Chandigarh during July 12-16, 2021.
- Recent Advancements in RF & Microwave Circuits and Devices Webinar series Organized by BENNETT University, ECE Department in association with NUMEREGION during April 05-09, 2021
- Indo-US VAJRA Course on "Fundamentals of Electromagnetics" EMF-2021, Organized by National Institute of Technology Silchar (India), Jawaharlal Nehru University Delhi (India) and California State University Northridge (USA) held during 15-19 March 2021
- "Nanotechnology for Electronics and Photonics Devices (NanoDev-2020)" organized by ECE Department, PEC Chandigarh during 15th-19th June 2020.
- "Research Evolution Workshop" held at MNIT, Jaipur during 13-15, September 2018.
- 7th Hands on training on "Photovoltaics and micro and nano characterization techniques" organized by Centre for Nano Science and Engineering, Indian Institute of Science (IISc), Bangalore, from 21st–29th July 2016.
- "Nanotechnology for Electronics and Photonics Devices (NanoDev-2016)" organized by ECE Department, PEC Chandigarh on 11th-16th July 2016.
- "Intellectual Property Rights" organized by Department of Electronics & Information Technology (DeitY) held at Chitkara University, Punjab on 8–9 April 2016.
- Indian Nanoelectronics Users Program (INUP) Familiarization Workshop on "Nanofabrication Technologies" held at the Centre for Nano Science and Engineering, Indian Institute of Science (IISc), Bangalore during 18–20 January 2016.
- "Antenna Innovations & Modern Technologies (iAIM–2015)" organized by IEEE AP/MTT Joint Chapter, Gujarat Section, India held at Ahmedabad during 26–27 December, 2015.
- "Advanced Nanomaterials for Energy, Optoelectronics and Biological Application" organized by India Australia–India Strategic Research Fund (AISRF) Meeting held at Institute of Nano Science and Technology (INST), Mohali during 25–27 November, 2015.
- "Mathematical Modeling, MATLAB Programming and their Applications in Engineering and sciences" held during January 19-23, 2015 at Malaviya National institute of Technology, Jaipur.

INVITED TALKS & ACADEMIC CONTRIBUTIONS

- **Invited IEEE Section Speaker** at the 25th International Scientific and Technical Conference on Problems of Computer Science in Education, Management, Economy, and Technology (P[i]CS 2025), Penza State University, Russia (31 Oct–1 Nov 2025).
- **Invited Expert Talk:** Delivered an expert session on "*Advancing Research Excellence: From Quality Publishing to AI-Empowered Innovation*", Department of Computer Science & Engineering, Chandubhai S. Patel Institute of Technology, Charotar University of Science and Technology (CHARUSAT), Gujarat, 8th October 2025.
- **Invited Expert Talk:** Delivered an expert session on "*Advancing Quality Research: Writing, Publishing, and Emerging Applications*" at the Faculty Development Session organized by Monark Research and Development Center, Monark University, Gujarat, on 3rd September 2025.
- **Keynote Speaker** in 24th International Scientific and Technical Conference Problems of Computer Science in Education, Management, Economy and Technology organized by Penza State University, Penza, Russia.
- **Board of Studies Member:** Invited as an External Member (Subject Expert) for the 9th Board of Studies (BOS) meeting of the Department of EC Engineering, Hasmukh Goswami College of Engineering, Faculty of Engineering & Technology, Monark University, on 3rd September 2025.

DISSERTATION TOPIC:

- Design and Simulation of Graphene Based Metamaterials for Terahertz Applications (**Ph.D.**)

Supervisors: Dr. Arun K. Singh and Dr. Neena Gupta, ECE Department, PEC Chandigarh
- Gain Flattened Hybrid Optical Amplifiers for WDM Systems (**M.E.**)
  Supervisor: Dr. Neena Gupta, ECE Department, PEC Chandigarh

CERTIFICATIONS/QUALIFICATIONS:

- **NPTEL:** *Introduction to Internet of Things* **Silver-Elite certification** from IIT Kharagpur with a consolidated score of 76% (Jul–Oct 2025).
- IoT (Internet of Things) Wireless & Cloud Computing Emerging Technologies (Coursera) [Feb, 2022]
- IBM Cloud Essentials (Authorized Badge by IBM) (Coursera) [March, 2022]
- *Qualified JRF and Assistant Professor* CBSE-UGC NET in June 2015.
- *Qualified GATE* (2013, 2014, 2015, 2016 and 2017).

SUBJECTS TAUGHT

Internet of Things, Network Theory Digital Electronics, Real Time Embedded System, and Basic Electronics, Introduction to IoT, IoT architecture, Cloud Computing & IoT, Served as tutor for Introduction to Electronics & Analog Electronic Circuits –II and TA for Advanced Communication Laboratory, Optoelectronics Laboratory, and Basic Electronics Laboratory

AWARDS

- Received **five awards** – *Best Researcher, Highest Cumulative Impact Factor, Highest Cumulative Citations, Highest Impact Factor,* and *Overall Best Research Performer* – at the **Research Excellence Awards**, Parul University, Vadodara (2024).
- **Best Paper Award, ISDIA 2025:** Awarded for the paper titled "Machine Learning Models for Predicting Type 2 Diabetes Using Ensemble Techniques and Performance Evaluation" presented at ISDIA 2025, held on January 3-4, 2025.
- **Academic and Research Performance Award** for the AY 2022-23, Parul University, Vadodara.
- **Academic and Research Performance Award** for the AY 2023-24, Parul University, Vadodara.
- **Academic and Research Performance Award** for the AY 2024-25, Parul University, Vadodara.

TECHNICAL PROFICIENCIES:

- **Simulation tools:** ANSYS High Frequency Structure Simulator (HFSS), CST EM Studio, Keysight Advanced Design System (ADS), MATLAB, Jupyter Notebook (Python), IE3D Hyperlynx.
- **Instruments:** Anechoic Chamber, Vector Network Analyzer (VNA), Common electronic tools like Digital Storage Oscilloscope (DSO), Function generator, and Multimeter.
- **IoT-related Tools:** Arduino, Raspberry Pi, Tinker cad, Node Red App (IBM Cloud)
- **Subjects of Interest:** Internet of Things, Network Theory, Digital Electronics, Basic Electronics, Analog Electronics.

ADMINISTRATIVE EXPERIENCE:

University Level
- **Committee Member**, *Extramural Projects & Collaborations Committee*, RDC, Parul University (June 2025 – Present)
- **Committee Member**, *Research Publications & Institutional Liaison Committee*, RDC, Parul University (June 2025 – Present)

Institute Level
- **Advanced Credit Program Coordinator**, Apex Institute of Technology, Chandigarh University
- **CompTIA A+ Trainer** for Industrial summer training
- **IQAC Criterion I,** Apex Institute of Technology, Chandigarh University
- **Student Advisory Committee (SAC) Member** in PEC Chandigarh during 2019-20
- **Committee member of Research Scholar Block** in PEC Chandigarh during 2018-19

Department Level
- **DQAC Co-coordinator**, IoT Department, Apex Institute of Technology, Chandigarh University

- **MIS/MOODLE Coordinator**, MT and RA Department, Parul University
- **Placement and Industrial Internship Coordinator**, RA Department, Parul University
- **Competitive and GATE Examination Coordinator**, MT and RA Department, Parul University
- **Department Criteria 5 Coordinator,** MT and RA Department, Parul University
- **Faculty Advisor,** Mechatronics and Robotics & Automation Department, Parul University

RESEARCH SUPERVISION:

PhD STUDENTS (Guide)

1. **Susmita Mishra**
2. **Pillai Anchu Krishnan Unni Krishnan Anitha**
3. **Pragya Devi**

PG STUDENTS (M.Sc.) (Co-Guide)

1. **Shingala Bansi Jentibhai**
   Dissertation: Development of TiO2-ZnO doped hybrid nano polymer composites for dielectrics application
2. **Panchal Piyushkumar Dineshbhai**
   Dissertation: Development of Al2O3-SiO2 doped hybrid nano polymer composites for dielectrics application
3. **Hetvi S Patel**
   Dissertation: Machine Learning Enhanced Dielectrics Properties of Epoxy Resin Loaded with Oxides/MWCNT Nanofillers

DECLARATION:

I hereby declare that the above-mentioned information is correct up to my knowledge and I bear the responsibility for the correctness of the above-mentioned particulars.

Dr. Prince Jain