

## Dr. Priya Gupta



### 1. Designation : Lecturer

**Department :** Electronics Engineering

**Qualification :** Ph.D., M.Tech, B.Tech, UGC-NET

**Experience :** More than 8 years

### 2. Contact Information

**email id-** [gupta101192@gmail.com](mailto:gupta101192@gmail.com)

### 3. Research Interest : Sensor fabrication, communication system

**4. Teaching Interest :** Electronics Devices and circuits, Control System, Electronics Instruments and measurement , Digital Electronics etc.

### 5. Publications :

#### Journals

- Peramjeet Singh, N.K.Pandey, Viknashalan Siva Kumar, Vernica Verma, Ajeet Singh, Priya Gupta, B.C.Yadav, “Highly sensitive pure molybdenum trioxide thin films at a higher annealing temperature for liquified petroleum gas and humidity sensing at room temp”, published in Applied Physics A (2023), Vol 129(4):250 [SCI].
- Vernica Verma, N.K.Pandey, Ajeet Kumar, Peramjeet Singh, Priya Gupta, B.C. Yadav, “Liquified petroleum gas sensing of biphasic Cu<sub>6</sub>Sn<sub>5</sub>:SnO<sub>2</sub> nanocomposite thin films”, published in Materials Chemistry (2022), 289(7):126459 [SCI].
- Priya Gupta, Kuldeep Kumar, Syed Hasan Saeed, N. K. Pandey, B. C. Yadav, Vernica Verma, Peramjeet Singh, “Influence of tin doping on the LPG and humidity sensing properties of NiO nanoparticles” published in Journal of materials research (2022), 37(10) [SCI].
- Priya Gupta, N. K. Pandey, Kuldeep Kumar, B. C. Yadav, “Structural, optical and LPG sensing properties of zinc-doped nickel oxide pellets operated at room temperature”, published in Sensors and Actuators A. (2021), Vol 319, page 112484. <https://doi.org/10.1016/j.sna.2020.112484> [SCI]
- Priya Gupta, Savita Maurya, N.K.Pandey, Vernica Verma “Structural, electrical and humidity sensing properties of nano-structured nickel oxide prepared by sol-gel method” published in Journal of Materials Science: Materials in Electronics, 32(5), 1-14 (2021). <https://doi.org/10.1007/s10854-020-05099-4>. [SCI]
- Priya Gupta, Kuldeep Kumar, N. K. Pandey, B. C. Yadav, Syed Hasan Saeed, “Effect of annealing temperature on a highly sensitive nickel oxide based LPG sensor operated at room temperature”, published in Applied Physics A, 127:289 (2021). <https://doi.org/10.1007/s00339-021-04444-6> [SCI].
- Vernica Verma, N.K.Pandey, Priya Gupta, Kuldeep Singh, Peramjeet Singh, “Humidity Sensing Enhancement and Structural Evolution of Tungsten Doped Nano-Sensors Fabricated Through Co-Precipitation Synthesis” published in Physica B: Condensed Matter (2021) [SCI].
- Priya Gupta, Savita Maurya, N.K.Pandey, Vernica Verma, “Metal-oxide based ammonia gas sensors - A review”, published in Nanoscience and nanotechnology- Asia, 11:3, 270-289, 2021. [Scopus]
- Narendra Kumar Pandey, Sanchita Singh, Priya Gupta, “Comparative study of structural, morphological and humidity sensing properties of pure WO<sub>3</sub> and Cu<sub>2</sub>O-WO<sub>3</sub> nanocomposite”, published in Asian Journal of Chemistry, Vol. 32, No. 9 (2020). [SCOPUS]
- Sanchita Singh, Narendra Kumar Pandey, Priya Gupta, “Cu-WO<sub>3</sub> Nanocomposite Prepared Through Solid-State Reaction Route:Characterization and Moisture Sensing Studies”, published in Dogo Rangsang Research Journal, Vol-10(6), No. 12, June 2020. [UGC].
- Sanchita Singh, Priya Gupta, Narendra Kumar Pandey, “Characterization studies of Cu-WO<sub>3</sub> nanocomposites and their application as solid state moisture sensor”, published in Dogo Rangsang Research Journal, Vol-10(6), No. 8, June 2020. [UGC]
- Priya Gupta, R.N.Shukla, Pooja Lohia, “A ZigBee based Wireless Sensor Network for an agricultural environment,” in IJSRD vol. 2 issue 7 September 2014, ISSN [Online]:2321-0613. [Peer reviewed]
- Priya Gupta, R.N.Shukla, “Wireless Sensor Network (WSN) simulation framework using MatLab software” in academic science IJIACS vol. 3 issue 4 June 2014 , p.p. 50-55, ISSN 2348-117X. [Peer reviewed]

- Anand Mohan Misra, Mohd. Maroof Siddhiqui, Priya Gupta, Pameer Singh, “Application of Mechatronics Alpha 1 “ International Journal of Engineering Science & Advanced Technology, Vol-2, Issue-4,831-835, ISSN:2250-3676. [Peer reviewed]

#### **Conferences:**

- Vernica Verma, Priya Gupta, N.K.Pandey, Peramjeet Singh, Neetu Yadav, “Microstructural, Electrical, and humidity sensor analysis of NiO and SnO<sub>2</sub> Nano particles synthesised through co-precipitation” published in National conference on Smart Materials and Devices for sustainable technologies in association with IJSRRT (2022).
- Presented poster titled “Effect of synthesis route on the structural, morphological and humidity sensing characteristics of nanostructured NiO” in International conference on advances in computational technologies in science and engineering ACTSE organized by Amity University Lucknow on March 19-20, 2021.
- Presented poster titled “Morphology governed optical, electrical and humidity sensing properties of zinc oxide and nickel oxide” in International conference on diverse emerging materials and their applications (IC-DEMA-2021) organized by University of Lucknow on 14-15 March 2021.
- Presented poster titled “Comparative study of nanocrystalline nickel oxide samples prepared by different synthesis routes” in 6th International Conference on Nanoscience and Nanotechnology ICONN 2021 organized by SRMIST on 1-3 Feb. 2021.
- Presented work “Studies on Morphological Properties of Nano-structured Nickel Oxide Prepared by Sol-gel Method and its Feasibility for Moisture Sensing” in BITCON 2020 national conference proceeding organized by Bhilai Institute Of Technology Durg.
- Participated in International virtual conference AFM 2020 organized by Kalinga Institute of Industrial Technology (KIIT) Deemed to be University, Bhubaneswar, Odisha, India on 26-28 August 2020.
- Presented poster titled “Effect of crystallite size on the electrical and humidity sensing properties of nano-structured NiO prepared through sol-gel route” in National e-conference on Interdisciplinary Research in Science and Technology (NCIRST) organized by Amiruddaula Islamia Degree College on May 30-31, 2020.
- Presented poster titled “Humidity sensing and Williamson-Hall analysis of pure and tungsten doped ZnO nanoparticles” in National e-conference on “Interdisciplinary Research in Science and Technology (NCIRST) organized by Amiruddaula Islamia Degree College on May 30-31, 2020.
- Presented poster titled “Effect of annealing temperature on the structural, morphological and humidity sensing properties of nanostructured NiO” in International e-conference on “Prospective of interdisciplinary research in Science and Technology in the present scenario” organized by CCSU, Meerut on May 15-16, 2020.
- Priya Gupta, R.N. Shukla, “A Review on Wireless Body Area Network,” National Conference on Advances in Computer Communication and Embedded (ACCES-II, 2014) System in March 2014. ISBN: 978-93-83842-37-7. (Off-line Proceeding).

#### **Chapters:**

- Prof. N.K.Pandey, Ms. Priya Gupta, “Societal Impact of Nanomaterials”, book chapter (Chapter ID: 70166) published in Book ID: 19782, Book Title: Versatile Solicitations of Material Science in Diverse Science Fields, Nova Science Publisher, U.S.A.
- Priya Gupta , Peramjeet Singh, N K Pandey, Nanotechnology and its role in Electronics industry , Book Chapter published in IIP Series Book, Title: Futuristic Trends in Chemical, Material Science and nanotechnology , vol 3 book 20.
- Peramjeet Singh , Priya Gupta, Vernica Verma, Neetu Yadav, N K Pandey, “A chapter on role of nanotechnology in sensor fabrication”, Book Chapter published in IIP Series Book, Title: Futuristic Trends in Chemical, Material Science and nanotechnology , vol 3 book 20.
- “Considerations in the development and deployment of nanotechnology”, Chapter published in Springer 2024, Book title: Nanotechnology in societal development, ISSN 2191-6853.
- “Nanotechnology: Social acceptance, cultural impact and privacy”, Chapter published in Springer 2024, Book title: Nanotechnology in societal development, ISSN 2191-6853.

## **6. Workshops/Faculty Development Program, orientation courses attended:**

- Attended FDP on “Advanced Embedded Systems” organised by NITTTR Chandigarh from 21 Aug – 25 Aug 2023.
- Attended Induction Training form 15-19 May 2023 organised by IRDT Kanpur.
- Attended FDP on “Industrial applications of mechatronics” from 23-27 May 2022 organised by IRDT Kanpur.
- Attended FDP on “Data Science and machine learning” from 28 Feb-04 March 2022 organised by IRDT Kanpur.
- Attended FDP on “Futuristic research and innovations in areas such as air quality monitoring , urban development, online education, oxygen concentrators and ventilators, green technology” from 07-11 Feb 2022 organised by IRDT Kanpur.
- Attended one week FDP on “Recent Advances in Material Science and Research Ethics” organized by MMMUT from Sep. 21-25, 2020.
- Attended one week FDP on “Computational Tools in Engineering and Research: Opportunities and Challenges” organized by RR group of Institutions from June 1-6, 2020.
- Attended online workshop on “Fuzzy Machine/Deep Learning for remote sensing data processing” organized by ISRO, Govt. of India, Dehradun on June 1, 2020.
- Attended 5 days online FDP organized by AICTE Training and Learning Academy on “Artificial Intelligence” at MNNIT Allahabad from May 18-22, 2020.
- Attended webinar on “Recent trends in Electrical Engg.” on May 30, 2020 by Marri Laxman Reddy Institute of Technology, Hyderabad.
- Attended webinar on “Emerging semiconductor devices: Trends and challenges” organized by HBTU, Kanpur on May 2020.
- Attended FDP on “Remote sensing and data science with software reliability” organized by BBDU, Lucknow on May 16, 2020.
- Attended FDP on “Real time hardware-in-the-loop simulations for power electronics and power systems from May 27-29, 2020 organised by Anurag University, Hyderabad.
- Attended 3 days Faculty Development Program organized by AKTU at IET Lucknow on “Microcontroller workshop design” organized by Texas Instruments.
- Summer training in HAL, Lucknow in 2011.
- Summer Training in RDSO, Lucknow in 2010.
- Attended workshop on embedded Technology at Vedant Training Centre.

## **7. Awards and Honors :**

- Received Silver medal in B.TECH.

## **8. Projects and Grants : NA**

## **9. Professional Memberships : NA**

## **10. ExtraCurricular Involvement:**

- Working as Examination Incharge, Hostel Incharge, Student record officer, AISHE Incharge in MKGP, Tirwa, Kannauj since January 2022 to till date.
- Worked as an Assistant Provost in Nivedita Hostel, University of Lucknow from September 2017-June 2020.
- Participated in B.Ed. 2017 counseling.
- Worked as a flying squad member in 2017 examinations.
- Worked as an observer in B.Ed. entrance 2017 & 2019 examinations.
- Organized Workshop on “MATLAB” by CETPA Infotech Pvt. Ltd. during PSIPHI-360 in Physics Department.
- Organized Workshop on “Make my Robot” by Softpro Innovations Pvt. Ltd on 5th Feb. 2018 in Physics De-

partment.

- Organized Workshop on “MATLAB Programming & Applications” by e-Brain[s] Techno Solution Pvt. Ltd. on 28th and 29th March 2018 in Physics Department.
- Organized Workshop on “Advanced Communication system: Principle and Application” on 11th Feb. 2017.
- Organized Workshop on “Embedded system and Robotics” by Softpro Innovations Pvt. Ltd. on 28th March 2017.
- Participated in designing of M.Sc. Electronics Syllabus and lab development in University of Lucknow.
- Departmental Training & Placement Coordinator (EC) in BBDNITM.
- Class Coordinator in BBDNITM.
- Time Table Coordinator in BBDNITM.
- Coordinator of Electro-Fishaan (Departmental Society) in Integral University.

#### **11. Social media platform :**

**Research gate :** <https://www.researchgate.net/profile/Priya-Gupta-28>

**Google scholar :** <https://scholar.google.com/citations?hl=en&user=aSzxSDUAAAAJ>

#### **12. Additional Information:**

- Received Summer Research Fellowship-2020 by Science Academies' in CBRI, Roorkee.
- Qualified UGC-NET 2016 and UGC-NET 2014 in Electronics Science.
- Qualified GATE 2015, GATE 2014, GATE 2013, GATE 2012, GATE 2011.