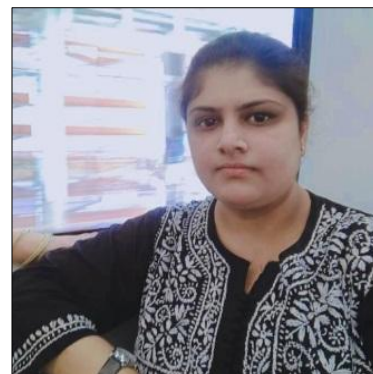


FACULTY PROFILE



❖ **Basic Information**

- **Name:** Ms. Rashmi V. Pandey
- **Designation:** Assistant Professor (Approved CHB)
- **Department:** Electronics
- **Area of Specialization:** Embedded Systems, Digital Electronics, VLSI Design & Luminescent Photonic Materials.
- **ORCID ID :** <https://orcid.org/0009-0003-0035-7042>

❖ **Educational Qualifications:**

- M.Sc. Physics, R.T.M. Nagpur University - 72.75%
- M.Sc. Electronics, R.T.M. Nagpur University - 68.76%
- Qualified Maharashtra State Eligibility Test (SET) in Electronic Science
- B.Sc. (Physics, Mathematics, Electronics), R.T.M. Nagpur University

❖ **Teaching Experience:** Contributory Lecturer/ Assistant Professor, Electronics, Nagpur (2014-Present)

- **Total Teaching Experience:** 10+ Years

❖ **Research Experience**

- Areas of Research Interest:
- Embedded Systems
- Biomedical Instrumentation
- Digital Communication
- Nanoscience & Nanotechnology
- Luminescent Phosphor Materials
- Optical & Electronic Materials

❖ **Research Publications**

(A) Research Papers in National/ International Journals

- Pandey, R., Ahamad, H. S., Kshetrapal, S., & Ugemuge, N. (2025). *Review study of some Sillen structure chloride phosphor materials*. **Journal of Condensed Matter**, 3(2). ISSN: 2583-9152 <https://doi.org/10.61343/jcm.v3i02.128>
- Pandey, R.V., Ahamad, H.S., Kshetrapal, S. et al. Exploring Near-Infrared Emission and Optical Properties of Er³⁺-Activated Na₂BiMg₂(VO₄)₃ Phosphors: Synthesis, Characterization, and Potential NIR Applications. *J. Electron. Mater.* 55, 4634–4646 (2026). <https://doi.org/10.1007/s11664-026-12753-w>
- Pandey, R. V. (2026). Artificial intelligence techniques for fault detection in electronic systems: A review. *Research Hub*, 7(2), 282–289. <https://doi.org/10.63665/rh.v7i2.48>

(B) Books / Book Chapters

Authored-

- Pandey, R. (2025). *Basic Electronics for Life Science–I: For GE/OE-I B.Sc. II Sem. III (NEP) (Kindle Edition)*. Amazon. ASIN: B0G4DV23ZM.
- Pandey, R. (2025). *Semiconductor Theory and Devices: For B.Sc. Electronics Sem. I & II (NEP) (Kindle Edition)*. Amazon. ASIN: B0G4DWD544.

❖ Orientation / Refresher Courses / FDPs Attended

- Five Days Faculty Development Programme on “Deep Learning using NVIDIA Jetson Nano”, organized by Department of Electronics & Communication Engineering, Bapatla Women’s Engineering College, Bapatla in association with Pantech e Learning, held from 17–21 February 2025.

❖ Papers Presented in Conferences / Seminars

- **“Review Study of Some Sillen Structure Chloride Phosphor Materials”**, presented at *International Conference on Materials & Applied Science for Society (MASS-2024)*, organized by Anand Niketan College of Science, Arts & Commerce, Warora, in joint auspices of Condensed Matter Research Society, held on 30–31 December 2024.
- **“Highly Efficient Near-Infrared Emission from Er³⁺-Doped Na₂BiMg₂(VO₄)₃ Phosphors: Synthesis, Characterisation and Potential Applications”**, presented at *ANAMMI-2025: National Conference on Applications of*

Nanophotonics and Advanced Materials for Instrumentation, organized by Govt. Engineering College, Bikaner, Rajasthan, 26–27 September 2025.

- “*Er³⁺-Activated SBMV Phosphors for Near-Infrared Emission*”, presented as an **Oral Presentation at INNERVATE 2026: National Seminar on “Recent Trends in Nanotechnology and Biodiversity Conservation**”, organized by Bajaj College of Science, Wardha (Autonomous, RTM Nagpur University), held on **20–21 January 2026**.
- Presented a research paper titled “*Ca₉Bi(VO₄)₇ Phosphor for Near-Infrared Applications*” at the International Conference on Emerging Frontiers in Interdisciplinary Advances in Basic and Applied Multidisciplinary Sciences (ICEFIABAMS), organized by Department of Botany, Shivprasad Sadanand Jaiswal College, 3–4 February 2026.
- Presented a research paper titled “*Artificial Intelligence Techniques for Fault Detection in Electronic Systems: A Review*” at the International Conference on Artificial Intelligence and Future of Society (ICAIFS), organized by Nabira Mahavidyalaya, Katol.
- Presented a research paper titled “*Green Luminescence in Er doped Na₂BiMg₂(VO₄)₃ Phosphors*” at ICAMSE-2026, organized by Santaji Mahavidyalaya, Nagpur, held on 27-28, March, 2026.
- Participated in One day National Conference on ‘Innovation in Science and Technology’ organized by Dada Patil Mahavidyalaya, Kajari, Ahilayanagar, held on 7th March, 2026.
- Participated in **One-Day Electronics–NEP 2020 Workshop Series**, organized by St. Francis De Sales College, Nagpur, held on 15 November 2025.
- Participated in **One-Day Electronics–NEP 2020 Workshop Series**, organized at Dharampeth M.P. Deo Memorial Science College, Nagpur, held on 13 December 2025.
- Participated in **National Workshop on Photoluminescence Spectroscopy & DFT**, Anand Niketan College, Warora, 29 December 2024.
- Participated in **Hands-On Workshop on “Mastering MATLAB”**, Janardan Singh Foundation & AIP, 28 July 2024 (Online).
- Participated in **Hands-On Training Workshop on “Mastering DFT”**, Janardan Singh Foundation & AIP, 27 July 2024.

- Participated in **One-Week Online Workshop on “Practical Approach Towards Research Paper Writing & Publications in SCIE/Scopus Indexed Journals”**, organized by Sri Guru Tegh Bahadur Khalsa College, Jabalpur & Condensed Matter Research Society, Bikaner, 13–18 October 2025.