

Curriculum Vitae



Centre/ School/ Special Centre: School of Studies of Engineering and Technology

Department: Electronics & Communication Engineering

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Name: Nipun Kumar Mishra

Qualifications:

- Ph.D. from Guru Ghasidas Vishwavidyalaya Bilaspur in 2018 in the area of Cylindrical Dielectric Resonator Antenna
- Master of Engineering from Chhatisgarh Swami Vivekanand Technical University Bhilai in 2008
- Bachelor of Engineering from Rajiv Gandhi Prdodyogki Vishwavidyalaya Bhopal in 2001

Area of Interest/Specialization:

- Antenna Design
- Metamaterial Absorbers
- Electromagnetic Waves
- RF & Microwave
- Wireless Communication

Experience:

- Associate Professor in department of Electronics and Communication Engineering, Guru Gasidas Vishwavidyalaya Bilaspur Since November 2023
- Assistant Professor in department of Electronics and Communication Engineering, Guru Gasidas Vishwavidyalaya Bilaspur Since 2011 to November 2023.
- Assistant Professor in department of Electronics and Communication Engineering, Shri Shankaracharya College of Engineering and Technology Bhilai from 2003 to 2010.

Awards and Honors:

- Best paper award at IEEE international conference INDICON - 24 organized by IEEE India Council and IEEE Chandigarh Subsection hosted by Punjab Engineering College Chandigarh during 22-24th August 24.
- Recognized as NPTEL Discipline Star by NPTEL SWAYAM in 2023
- Best paper award in international conferences at Rungta College of Engineering and Technology Bhilai in 2023
- Best paper award at Guru Ghasidas Vishwavidyalaya (Central University) Bilaspur in 2019.
- Young Scientist Award by International Academy of Physical Science, Allahabad in 2008.

Publications:

Journals:

- 1) L. Dewangan, and **N. K. Mishra**, " Isolation Enhancement of MIMO Dielectric Antenna Using ϵ -Negative Metamaterial Dielectric Superstrate for NR-78 band," in *IEEE Transactions on Dielectrics and Electrical Insulation*, Jan. 2025, doi:10.1109/TDEI.2025.3529434.
- 2) L. Dewangan, **N. K. Mishra** and S. Ghosh, "Angularly Stable High-Q Factor Metamaterial Absorber for Biomedical Sensing Applications," *IEEE Sensors Letters*, vol. 8, no. 8, pp. 1-4, Aug. 2024, Art no. 3501904, doi: 10.1109/LENS.2024.3414337.
- 3) S. A. Sandiman and **N. K. Mishra**, "Resistive ink based polarization and incident angle independent wideband absorber for RCS reduction at K_U and K band," *Optik*, vol. 313, p. 171979, Oct. 2024, doi: 10.1016/j.ijleo.2024.171979.
- 4) Laxmikant Dewangan, Megh Sainadh Patinavalasa, Juin Acharjee, Shrey Anant Sandiman, Saptarshi Ghosh and **Nipun K Mishra**,. "Direction independent broad-band wide angle metamaterial absorber for "K" band applications", *Frequenz - DE GRUTER, Journal of RF-Engineering & Telecommunication*, , 2023, doi.org/10.1515/freq-2023-0151.
- 5) Laxmikant Dewangan, Megh Sainadh Patinavalasa, Juin Acharjee, Yogesh Solunke, Saptarshi Ghosh, **Nipun K Mishra**, "Broadband metamaterial absorber for stealth applications at K-band", *AEU - International Journal of Electronics and Communications*, Vol- 170, 2023, doi.org/10.1016/j.aeue.2023.154828,
- 6) Laxmikant Dewangan, **Nipun K Mishra**, Multiband polarization insensitive metamaterial absorber for radar cross-section reduction, *AEU - International Journal of Electronics and Communications*, Vol- 168, 2023, doi.org/10.1016/j.aeue.2023.154706.
- 7) Vijay Sharma, **Nipun K Mishra**, Atul K. Agarwal and N.L. Gupta, "Small Size Broadband Printed Antenna for 5G Applications Covering 28GHz/37GHz and 60GHz Bands", *Gazi University Journal of Science*, Vol 37, issue -1, pp 211-220,2024.

- 8) **Nipun K. Mishra**, Juin Acharjee , Vijay Sharma, Chandan Tamrakar, and Laxmikant Dewangan ,
“Mutual Coupling Reduction between the Cylindrical Dielectric Resonator Antenna using Split
Ring Resonator based Structure”, *AEU, International Journal of Electronics and
Communication*, Vol. 154, 2022, doi.org/10.1016/j.aeue.2022.154305.
- 9) Juin Acharjee , Shreya Chatterjee , **Nipun K. Mishra** , Gouri S. Paul , and Kaushik Mandal,”
Synthesizing Radiation Properties of Dual-Band Dual-Mode High Gain Dielectric Resonator
Antenna for Wireless Applications” , *Progress In Electromagnetics Research C*, Vol-122,153-
164,2022.
- 10) **Nipun K. Mishra**, S. Das & Dinesh K. Vishwakarma, "Beam Steered Linear Array of cylindrical
Dielectric Resonator Antenna, *AEU, International Journal of Electronics and Communication*,
Vol. 98, pp. 106-113, 2019, doi.org/10.1016/j.aeue.2018.11.011.
- 11) **Nipun K. Mishra**, S. Das & Dinesh K. Vishwakarma, "Wideband High Gain Cylindrical Dielectric
Resonator Antenna for X-band Applications", *Frequenz - DE GRUTER, Journal of RF-
Engineering & Telecommunication*, Vol-73 issue 3-4,109-116.
- 12) **Nipun K. Mishra**, S. Das & Dinesh K. Vishwakarma, “Low Profile circularly Polarized Cylindrical
Dielectric Resonator Antenna coupled by L- Shaped resonating slot”, *Microwave Optical Theory
Letter, Wiley*, Vol. 59, pp 996-1000, 2017.
- 13) **Nipun K. Mishra**, S. Das & Dinesh K. Vishwakarma, “Bandwidth enhancement of Cylindrical
Dielectric Resonator Antenna using thin dielectric layer fed by resonating slot”, *Frequenz - DE
GRUTER , Journal of RF-Engineering & Telecommunication*, Vol. 59, pp 381-388, 2016.
- 14) Robert Mark, **Nipun Mishra**, Kaushik Mandal, Partha Pratim Sarkar, Soma Das," Hexagonal ring
fractal antenna with dumb bell shaped defected ground structure for multiband wireless
applications", *AEU, International Journal of Electronics and Communication*, Vol. 94, pp. 42-
50, 2018.
- 15) Robert Mark, **Nipun Mishra**, Kaushik Mandal, Partha Sarkar, Soma Das," Hexagonal Nested Loop
Fractal Antenna for Quad Band Wireless Applications", *Frequenz - DE GRUTER, Journal of RF-
Engineering & Telecommunication*, Vol-73 issue 3-4,99-108, 2019.

Patents

1. A system for Polarization Convertor of Electromagnetic Wave “Indian Patent” **Published in 2025**.
Application no.202521004553
2. A Reconfigurable Frequency Selective Surface (RFSS) System for Dual Band Multifunctional Operation
“Indian Patent” **Filed on 2025**. Application no.202521065558

Research Supervision:

- Ph.D. 01 Student awarded, 03 Pursuing
- M.E. 05 Awarded,
- B.E. More than 30

Administrative Responsibilities:

- Head of Department (Feb 2017-Aug 2019).
- Administrative Warden of Veer Sawarkar Boys Hostel Since July 2024
- Hostel Warden of Dr. B.R. Ambedkar Boys Hostel from April 2018 to June 2024.
- Nodal Coordinator of Virtual Lab, GGV Bilaspur.
- Module Coordinator (Hostel), SAMARTH Portal.
- Departmental PhD Coordinator (2025)
- Co-coordinator of NIRF for School of Engineering and Technology
- Member of Consultant Evaluation Committee(CEC)
- Member of Consultant Monitoring Committee (CMC).
- Member of Solar Panel Technical Committee GGV.
- Member of local safety committee of accelerator
- Member of Departmental Research Committee.
- Convener of Research Advisory Committee.
- Member of Departmental Advisory Committee.
- Member of NBA work Committee.
- Chairman BOS (Feb 2017-Aug 2019)

Additional Information:

- Contributed in preparation of lectures of NPTEL SWAYAM module
- Coordinated one-week online ATAL FDP on “Devices for Modern Wireless Communication” Sponsored by AICTE, New Delhi from 20/0/21 to 24/09/21.
- Coordinated 04 workshops on Virtual Lab in association with Virtual Lab IIT Kharagpur.
- Reviewer of IEEE/Elsevier/Taylor & Francis Journals and many International Conferences
- Organizing committee member of Microwave and Antenna Propagation Conference(MAPCON-22) organized by IEEE held at Bengaluru
- Technical committee member of Microwave and Antenna Propagation Conference(MAPCON-24) organized by IEEE held at Hyderabad
- Guest Lecture Delivered: 06
- Key Note Address in international/National conference: 02

Member of professional bodies:

- Senior Member of Institution of Electrical and Electronics Engineering(IEEE)
- Life Member of Institution of Electronics & Telecommunication Engineers(IETE).
- Life Member of Institution Indian Society of Telecom Engineers(ISTE).
- Associate Member of Institution of Engineer India(IEI).
- Member of Indian Radio Science Society(InRaSS).