

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, Associate Professor, Electronics and Communication Engineering

Qualifications:

- Ph.D. from Guru Ghasidas Vishwavidyalaya Bilaspur in 2018 in the area of Cylindrical Dielectric Resonator Antenna
- Master of Engineering from Chhatishgarh 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.
- Assistant Professor in department of Electronics and Communication Engineering, Shri Shankaracharya College of Engineering and Technology Bhilai from 2003 to 2010.

Awards and Honors:

- Recognized as NPTEL Discipline Star by NPTEL SWAYAM in 2023
- Best paper award in international conferences at R.C.E.T. Bhilai in 2023
- Young Scientist Award by International Academy of Physical Science, Allahabad in 2008.

Publications:

Journals:

- 1) 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*, 2023.
- 2) 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,
- 3) 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.
- 4) 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.
- 5) **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.
- 6) 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.
- 7) **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.
- 8) **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.
- 9) **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.
- 10) **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.
- 11) 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.

- 12) 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.

International Conferences:

- 1) Shrey Anant Sandiman, Laxmikant Dewangan and **Nipun K Mishra**, "Ultra-Wide Band Metamaterial Absorber Based on Resistive Sheet for L to Ku Band Application", *IEEE Microwaves, Antennas and Propagation Conference(MAPCON)*, 2023.
- 2) **Nipun K Mishra** and Laxmikant Dewangan "Broad Band Polarization Insensitive Metamaterial Absorber for K Band Application," *IEEE Microwaves, Antennas and Propagation Conference(MAPCON)*, 2022.
- 3) Laxmikant Dewangan and **Nipun K Mishra** " Broadband Wide angle Polarization insensitive Metamaterial Absorber for K band application," *2022URSI Regional Conference on Radio Science (URSI-RCRS)*, 2022.
- 4) V. Sharma, T. Jhajharia, M. Gupta, S. Yadav, **N. Kumar Mishra** and D. Pal, "Dual Band Circularly Polarized Probe Feed Asymmetric Patch Antenna with Wide Axial Ratio Bandwidth," *2021 IEEE Indian Conference on Antennas and Propagation (InCAP)*, 2021, pp. 794-797.
- 5) **Nipun K. Mishra** & S. Das, "Cylindrical Dielectric Resonator Antenna Array with Beam Steering Capability", *URSI-Asia Pacific Radio Science Conference*, New Delhi 9-15 March 2019.
- 6) **Nipun K. Mishra**, S. Das & Dinesh K. Vishwakarma," Electronically Steerable Phased Array of Cylindrical Antenna ", *IEEE international conference, InCAP-2018*, Hyderabad, 16-19 December, 2018.
- 7) **Nipun K. Mishra**, S. Das & Dinesh K. Vishwakarma," Circularly Polarized Cylindrical Dielectric Resonator Antenna for X-band applications ", *IEEE international conference, IAIM-2017*, Bangalore, 24-26 November, 2017.
- 8) **Nipun K. Mishra** & S. Das, "Circularly Polarized Cylindrical Dielectric Resonator Antenna coupled by V-Shaped Resonating slot", *IEEE international conference, ICRAIE-2016*, Jaipur, 23-25 December, 2016.
- 9) **Nipun K. Mishra** & S. Das, " Investigation of Binomial and Chebyshev Distribution on Dielectric Resonator Antenna Array, *IEEE international conference, Nagpur* 09-11 January 2014.
- 10) **Nipun K. Mishra** , Dinesh K. Vishwakarma & Anil Kumar, " Performance analysis of micro-strip patch antenna and Dielectric Resonator Antenna array, ", *IEEE international conference, ICECCN-2013*, Tirunelveli,, 25-26 March 2013
- 11) **Nipun. K. Mishra**, "Development of GSM — 900 Mobile Jammer: An approach to overcome existing limitation of jammer," *Fifth IEEE International Conference on Wireless Communication and Sensor Networks (WCSN)*, Allahabad, India, 2009.

Research Supervision:

- Ph.D. 02 Student pursuing
- M.E. 04 Awarded, 01 Pursuing
- B.E. More than 30

Administrative Responsibilities:

- Head of Department (Feb 2017-Aug 2019).
- Hostel Warden of Dr. B.R. Ambedkar Boys Hostel Since April 2018.
- Nodal Coordinator of Virtual Lab, GGV Bilaspur.
- Module Coordinator (Hostel), SAMARTH Portal.
- 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 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 03 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
- Guest Lecture Delivered: 05
- Key Note Address in international/National conference: 02

Member of professional bodies:

- 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).