Dr. Deepak Sood, Ph.D.
Assistant Professor, Department of Electronics & Communication Engineering
University Institute of Engineering & Technology (UIET), Kurukshetra University, Haryana

1. Profile

Dr. Deepak Sood is currently working as an Assistant professor in the Department of Electronics & Communication Engineering of UIET, Kurukshetra University, Kurukshetra (Haryana), India. He has twenty-Three years of teaching experience. He has more than forty research articles at national and international level in various fields of RF engineering. His research interests include design and development of Metamaterial-based microwave absorbers, design of spatial filters using Frequency selective surfaces, Microstrip based RF device design such as hybrid network, power divider, directional coupler, filters, antenna design, and substrate integrated waveguide design. He has guided 21 M. Tech Dissertations and 60 B. Tech Projects till date. He has organized many faculty developments and short-term courses till date. He is a reviewer of various international journals such as Journal of Microwave & Optoelectronics, Progress in Electromagnetic Research, IEEE Photonics, Parmana and Scientific Reports etc. Specializing in electromagnetic theory, antennas, microwave techniques, and control systems, he brings a rare blend of theoretical depth and applied ingenuity. His scholarly contributions include seminal work on metamaterial-based microwave absorbers and frequency-selective surfaces, earning him recognition both within UIET and beyond.

2. Professional Experience

- **Assistant Professor**, Department of ECE, UIET, Kurukshetra University (2011–present)
- **Faculty In-Charge**, ECE Department, UIET, contributing to academic governance and departmental leadership.

3. Academic Qualifications

- Ph.D. (ECE)
- M.Tech.(ECE)
- B.Tech. (ECE)

4. Areas of Specialization

- Electromagnetic Theory & Analysis
- Antenna Design & Metamaterials
- Microwave Theory & Techniques
- Frequency-Selective Surfaces (FSS)
- Control Systems Engineering

5. Research Highlights & Scholarly Contributions

A. Authored 27 research articles in international and national journals, and presented in 17 peer-reviewed conferences**.**
B. Key publications include work on metamaterial microwave absorbers — for instance, a Quad band electric field-driven LC resonator-based polarisation-insensitive metamaterial absorber published in IET Microwaves, Antennas & Propagation.
C. Contributed to a novel polarization-insensitive ultra-wideband metamaterial microwave absorber, demonstrating flexible, compact absorber design on ITO-coated PET substrate.

His research primarily revolves around the following topics:

1. **Metamaterial Microwave Absorbers**
   - He has worked on various ultra-thin and wideband metamaterial absorbers.
2. **RFID Tag Antenna Design**
   - Co-author of "Development of compact inductive coupled meander line RFID tag for near-field applications". This is published in the International Journal of Microwave and Wireless Technologies.
   - Also involved in: "Triangular patch-based wideband long-range UHF RFID tag for metallic environment*"*.
3. **Conference Proceedings / Edited Volumes**
   - He contributes to research in mobile radio communications and 5G networks. For instance, he is listed in the Springer Lecture Notes in Networks and Systems publication for MRCN 2020.

6. Professional Service & Academic Leadership

- Served on the organizing committee of international workshops and conferences on metamaterials and high-frequency engineering, contributing his expertise in frequency-selective surfaces and metamaterial circuit modelling.
- Participated in departmental research committees and academic boards: Member of the Board of Studies at UIET, KUK, and worked as member of Departmental Research Committees**.**

7. Recognition & Impact

- His research has garnered a notable H-index -12 (2025) and citation record evidencing both methodological rigor and scholarly influence.
- Invited as a resource person and expert in metamaterial workshops, furthering knowledge dissemination and mentorship in advanced electromagnetic research.

8. Contact & Professional Details

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- **ORCID / Research ID**: ORCID 0000-0002-5783-0967

9. Personal Attributes

Dr. Sood is known for his intellectual curiosity**,** innovative problem-solving**,** and collaborative spirit. He fosters a learning environment that encourages students to think critically, engage in research, and explore emerging frontiers in electromagnetics. His pedagogical philosophy balances rigorous theory with hands-on application, motivating young engineers to pursue excellence and innovation.