**Ankit Sharma (Ph.D)**

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**Career Summary**

I have been working as Assistant Professor at Galgotias College of Engineering & Technology, Greater Noida since April 2014. I am having a total teaching experience of 9.7 years with active involvement in the research field as I have published 12 SCI Journals including IEEE Transaction and more than 6 international conferences. I have also worked for NBA Criteria 3 for ECE and other five departments of GCET. I am also involved with students in their final year project work.

**Software Skills/ Certification**

1. Software Tools: **CST Microwave Studio, HFSS, and MATLAB**
2. Documentation Tool: LaTex, Microsoft Office
3. Huawei Certified **Artificial Intelligence** Instructor

**Research Work**

Below mentioned research papers are published in **SCI journals**:

1. Deepti, Deepak, Shamsher Singh, **Ankit Sharma**, Satya P. Singh "Design of Low RCS High Gain CP Slot Antenna Using Polarization Conversion Metasurface." ***International Journal of Electronics*** (2022)
2. Gangwar, Deepak, Shamsher Singh, **Ankit Sharma**, Satya P. Singh, and Aimé Lay-Ekuakille. "Design of Polarization Conversion Metasurface for RCS Reduction and Gain Improvement of Patch Antenna for Ku-Band Radar Sensing Applications." ***Sensors and Actuators*** *A: Physical* (2021): 113273.
3. Raj, Utkarsh, Madan kumar Sharma, Vaibhav Singh, Sania Javed, and **Ankit Sharma.** "Easily Extendable Four port MIMO Antenna with Improved Isolation and wide Bandwidth for THz Applications." ***Optik* (2021):** 167910.
4. **Sharma, Ankit**, Deepak Gangwar, Ravi Prakash Singh, Rashi Solanki, Saurabh Rajpoot, Binod Kumar Kanaujia, Satya P. Singha, and Aime Lay-Ekuakille. "Design of Compact Wideband Circularly Polarised Hexagon Shaped Antenna using Characteristics Mode Analysis." ***IEEE Transactions on Instrumentation and Measurement*** (2021).
5. **A. Sharma** *et al*., "In-band RCS Reduction and Isolation Enhancement of a 24 GHz Radar Antenna using Metamaterial Absorber for Sensing and Automotive Radar Applications," in ***IEEE Sensors Journal***, doi: 10.1109/JSEN.2020.3002337.
6. **A. Sharma** et al., "Wideband High-Gain Circularly-Polarized Low RCS Dipole Antenna With a Frequency Selective Surface," in **IEEE Access**, vol. 7, pp. 156592-156602, 2019.
7. D. Gangwar, **A. Sharma**, B. K. Kanaujia, S. P. Singh, and A. Lay-Ekuakille, “Characterization and Performance Measurement of Low RCS Wideband Circularly Polarized MIMO Antenna for Microwave Sensing Applications,” ***IEEE Transactions on Instrumentation and Measurement****,* pp. 1–1, 2019.
8. **A. Sharma**, D. Gangwar, B. Kumar Kanaujia, S. Dwari, and S. Kumar, “Design of a wideband polarisation conversion metasurface and its application for RCS reduction and gain enhancement of a circularly polarised antenna,” ***IET Microwaves, Antennas & Propagation***, vol. 13, no. 9, pp. 1427–1437, Jul. 2019.
9. **A. Sharma**, D. Gangwar, B. Kumar Kanaujia, and S. Dwari, “Gain enhancement and RCS reduction of CP patch antenna using partially reflecting and absorbing metasurface,” ***Electromagnetics***, vol. 39, no. 2, pp. 120–135, Feb. 2019.
10. **A. Sharma**, D. Gangwar, B. K. Kanaujia, and S. Dwari, “Analysis and design of an ultra-thin metamaterial absorber and its application for in-band RCS reduction of antenna,” **Journal of Electromagnetic Waves and Applications**, vol. 33, no. 5, pp. 654–667, Jan. 2019.
11. **A. Sharma**, D. Gangwar, B. Kumar Kanaujia, and S. Dwari, “RCS reduction and gain enhancement of SRR inspired circularly polarized slot antenna using metasurface,” **AEU - International Journal of Electronics and Communications**, vol. 91, pp. 132–142, Jul. 2018.
12. **A. Sharma**, D. Gangwar, B. K. Kanaujia, and S. Dwari, “Gain enhancement and broadband RCS reduction of a circularly polarized aperture-coupled annular-slot antenna using metasurface,” **Journal of Computational Electronics**, vol. 17, no. 3, pp. 1037–1046, May 2018.

**International Conferences**

1. Sharma, Komal, and Ankit Sharma. "Design of Cosine Modulated Filter Banks exploiting spline function for spectrum sensing in Cognitive Radio applications." *2016 IEEE 1st international conference on power electronics, intelligent control and energy systems (ICPEICES)*. IEEE, 2016.
2. Monga, Jayati, and Ankit Sharma. "Design of a Multi-Band Microstrip Slot Antenna with Bi Directional Radiation Pattern." *2020 International Conference on Inventive Computation Technologies (ICICT)*. IEEE, 2020.
3. Monga, Jayati, et al. "Design and Analysis of AMC based Metasurface Loaded Slot Antenna for Low Radar Cross Section." *2020 11th International Conference on Computing, Communication and Networking Technologies (ICCCNT)*. IEEE, 2020.
4. Mangal, Shubham Kumar, et al. "Gain Enhancement of Circularly Polarised Microstrip Patch Antenna using Metasurface." *2018 2nd IEEE International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES)*. IEEE, 2018.
5. Saini, Amanpreet Singh, et al. "Design of wideband Microstrip Antenna for X, Ku and K-Band applications." *2021 International Conference on Advance Computing and Innovative Technologies in Engineering (ICACITE)*. IEEE, 2021.
6. Rawat, Arun Singh, et al. "Design of compact MIMO antenna with improved isolation for UWB application." *Journal of Physics: Conference Series*. Vol. 1921. No. 1. IOP Publishing, 2021.

**Academics Experience 08 Years**

**Galgotias College of Engineering and Technology Assistant Professor**

April 2014 – Present

1. Taught at least 10 subjects in the field of Electronics and Communication
2. Successfully guided more than 4 UG and PG student projects.
3. Additional Responsibility: Class Coordinator, NBA criteria 3 team lead.
4. Received an appreciation letter for NBA work from the director.

**Bharat Institute of Technology 02 Years**

July 2012 – April 2014 **Assistant Professor**

1. Taught both B.Tech and M.Tech courses.
2. Member of departmental NBA team
3. Class Coordinator and Project Coordinator

**Roles and Responsibilities**

1. Played a lead role in the **Criteria 3 team for the NBA accreditation** of the department in 2017 and 2020.
2. **Project Coordinator** of the department.
3. Guiding the project students with papers published in journals and conferences
4. Continuously doing research in the field of antennas
5. Worked as Reviewer in **IET Microwaves, Antennas and Propagation, IEEE Access, Arabian Journal for Science and Engineering**

**Education**

**Ph.D. IIT(ISM) Dhanbad, Jharkhand**

***Completed in Dec, 2021***

**Thesis:** *Design and Analysis of Metamaterial Loaded Antennas for Low Radar Cross Section (RCS) and Gain Enhancement.*

1. This project work involves comprehensive study of various RCS reduction techniques. Design and Analysis of metamaterial loaded antenna for reduction of RCS and observe its effects on radiation properties of the antenna. Comparison and validation using analytical, simulated and experimental results of the proposed design.
2. This work is implemented in simulation tools CST and HFSS. After successful simulation prototype antenna is fabricated and results are measured using VNA and anechoic chamber
3. Course work successfully completed.

**M.Tech GGSIPU, Delhi**

*Graduated June 2012*

1. **Masters in Signal Processing with 77.3%**
2. Thesis: *An Improved design method for Cosine Modulated Filter Bank using Windowing Technique*.
3. In this thesis work, a closed-form method is used for the implementation of cosine modulated filter banks with defined roll-off factor and stopband attenuation. The proposed method uses optimization of the single parameter that is passband edge frequency, calculated with the help of empirical formula in place of using time-consuming multivariable optimization techniques. Examples are used to show the comparison between the previous algorithms and proposed method in terms of aliasing distortion, amplitude distortion and CPU time. An application of the proposed method is used in the processing of speech, audio and ECG signals. The proposed work is implemented using MATLAB.

**PG Diploma CDAC Noida**

*Graduated January 2009*

1. PG Diploma in Embedded and VLSI Design and passed with A grade

**B.Tech AKTU, Lucknow**

*Graduated June 2008*

1. **Bachelors in Electronics and Instrumentation with 64.5%**

**Declaration:**

I certify that the information furnished above is correct and complete to the best of my knowledge and belief.

(ANKIT SHARMA)