

CURRICULUM VITAE

Dr. Biplab Bag

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PERSONAL INFORMATION

Gender : Male
Date of Birth : 2nd April 1984
Religion : Hindu

RESEARCH INTEREST

Planar monopole antenna design, Circularly polarized antenna, Array Antenna, Frequency Selective Surface, MIMO Antenna, Metamaterial, and 5G Antenna.

EDUCATIONAL DEGREES

Ph.D.
2018-2021

University of Kalyani, West Bengal, India

Title of Thesis: Studies on Performance Improvement of Different Features of Microstrip Antenna

M.Tech.
2006-2028

West Bengal University of Technology, West Bengal, India

Title of the Project: Compact and Broadband Microstrip Antenna for Mobile Communication

B.Tech.
2002-2006

West Bengal University of Technology, West Bengal, India

Title of the Project: Design and Fabrication of PC Based Level Measurement and Control System using IR Sensor.

TEACHING INTEREST

UG courses Linear Control System, Analog Communication, Digital Communication, Analog Electronics, Electromagnetic Field Theory, Basic Electrical and Electronics, Signal and Systems, Microprocessor, Microwave Engineering, and Antenna Theory.

PRESENT POSITION

Assistant Professor Department of Electronics and Communication Engineering, **Haldia Institute of Technology**, Haldia, Purba Medinipore, West Bengal, (Since 22.08.2025 to till date).

TEACHING EXPERIENCE

Assistant Professor Department of Electrical Engineering, **Murshidabad College of Engineering and Technology**, Murshidabad, West Bengal, (Since 24th Sept. 2007 to 11th Aug. 2025).

Lecturer Sheikhpara ARM Polytechnic from April 2007 to September 2007.

AWARDS AND ACHIEVEMENTS

UGC NET (Assistant Professor) Qualified (December 2014).

PATENT FILED

- **Biplab Bag**, Susmita Bala, Kalyan Mondal, and Snehasish Saha, “5G Millimeter-Wave Circularly Polarized Microstrip Antenna” (Ref. No. 457504-001).
- Kalyan Mondal, Sumit Banerjee, Saikat Mukherjee, and **Biplab Bag**, “A Method for Compactness Enhancement of Robust Asymmetric Microstructure with Reduced Mutual Coupling for Preventing Electromagnetic Interference” (Application no. 202531035388)

FDP/STTP/WORKSHOP

- AICTE Training and Learning (ATAL) Academy Online Faculty Development Program on **Flexible and Plant-Wearable Sensor Design for Smart and Precision Pharming**, 03rd Feb. – 08th Feb. 2025 (6 days), NIT Agartala, India.
- AICTE Training and Learning (ATAL) Academy Online Faculty Development Program on **Antennas & RF Circuits for Radio Frequency Energy Harvesting Applications for Energizing Low Power Devices**, 24th Feb. – 01st March 2025 (6 days), Tripura University, Agartala, India.

PROFESSIONAL SERVICES

Reviewer of Journals:

- International Journal of RF and Microwave Computer-Aided Engineering (Wiley-Hindawi)
- International Journal of Communication System (John Wiley & Sons)
- Journal of Electromagnetic Waves and Applications (Taylor & Francis)

LIST OF PUBLICATIONS

(Journals)

1. Susmita Bala, Tiya Dey Malakar, Manas Mondal, Saptadeepa Das, and **Biplab Bag**, “Design of a dual band microstrip antenna with broadband and circular polarization characteristics useful for different wireless applications”, *Advanced Electromagnetics*. (Accepted) (Scopus)
2. Kalyan Mondal, **Biplab Bag**, and Deepak Kumar Barik, “Compact circularly polarized 2x2 microstrip array antenna for 7.25 – 7.75 GHz/ 7.9-8.4 GHz X-band satellite application”, *Sādhanā*, Vol. 50, 2025. (SCIE).
3. Kalyan Mondal, **Biplab Bag**, and Lakhindar Murmu, “Ultra- Miniaturized and Angularly Stable Symmetric Polarization Insensitive Frequency Selective Surface for EM Shielding”, *International Journal of Communication Systems*, Vol. 37, issue 16, e5900, 2024. (SCIE)
4. Susmita Bala, **Biplab Bag**, Sushanta Sarkar, and Partha Pratim Sarkar, “A Single Feed Circularly Polarized Dual Band Microstrip Monopole Antenna for Wireless Applications”, *Microwave and Optical Technology Letters*, Vol. 66, issue 2, e34048, 2024. (SCIE)
5. Kalyan Mondal, **Biplab Bag**, Partha Pratim Sarkar, “Axial Ratio Bandwidth Improvement of Compact Planar Monopole Antenna with Dual-Band and Dual-Sense”, *International Journal of Communication Systems*, vol. 37, issue- 5, e5688, 2024. (SCIE)

6. Kalyan Mondal, **Biplab Bag**, Lakhindar Murmu, Partha Pratim Sarkar, “Stable Scanning Angle, Polarization – Insensitive Multi Band-Stop Frequency Selective Surface for Wireless Communication”, *Sādhanā*, Vol. 49, issue- 27, pp.- 1-5, 2024. (SCIE)
7. Kalyan Mondal, **Biplab Bag**, Lakhindar Murmu and Tapan Mandal, “Dual band, Reduced Size, Enhanced Gain Frequency Selective Surface Based Monopole Antenna for Wireless Communications”, *Wireless Personal Communications*, Vol. 131, pp.-2797-2810, 2023. (SCIE)
8. **Biplab Bag**, Kalyan Mondal, Snehasish Saha, Partha Pratim Sarkar, “Wideband monopole antenna: Enhanced gain and circular polarization for satellite communication”, *Wireless Networks*, Vol. 29, issue 6, pp.-2717-2731, 2023. (SCI)
9. Nilesh Mukherjee, Kalyan Mondal, Lakhindar Murmu, **Biplab Bag**, P Soni Reddy, Partha Pratim Sarkar, “Dual Broad Band-Stop Polarization-Insensitive and Scanning Angle Stability Frequency Selective Surface”, *AEU-International Journal of Electronics and Communications*, Vol. 160, 2022. (SCIE)
10. **Biplab Bag**, Kalyan Mondal, and Partha Pratim Sarkar, “Dual-band Dual-sense Broadband Circularly Polarized Parasitic Ring Loaded Monopole Antenna for Satellite Applications”, *International Journal of Communication Systems*, Vol. 35, issue 14, pp.- e5258, 2022. (SCIE)
11. **Biplab Bag**, Sushanta Biswas, Sushanta Sarkar, and Partha Pratim Sarkar, “Performance Enhancement of a Circularly Polarized Printed Monopole for Wireless System Application”, *Frequenz*, Vol. 76, issue 9-10, pp.- 579-592, 2022. (SCIE)
12. **Biplab Bag**, Sushanta Biswas, and Partha Pratim Sarkar, “A wide circularly polarized dual-band isosceles trapezoidal monopole antenna with modified ground plane”, *International Journal of Communication Systems*, Vol. 35, issue 3, pp.- e5037, 2022. (SCIE).
13. **Biplab Bag** and Partha Pratim Sarkar, “Dual-band monopole antenna with wide axial ratio bandwidth for wireless systems”, *IETE Journal of Research* Vol. 69, issue 8, 5670-5680, 2023. (SCIE)
14. **Biplab Bag**, Sushanta Biswas, and Partha Pratim Sarkar, “Dual wideband and high gain microstrip antenna for wireless system”, *Facta Universitatis Series: Electronics and Energetics*. Vol. 34, no. 3, PP.- 434-444, 2021. (Scopus), ISSN-2217-5997.
15. **Biplab Bag**, Rahul Mondal, Sushanta Biswas, and Partha Pratim Sarkar, “Application based evolution of microstrip antenna: presenting wide-bandwidth circular polarization and multi-resonating characteristics”, *Journal of Electromagnetic Waves and Applications*, Vol. 34, issue 14, pp-1899-1917, 2020. (SCIE).
16. **Biplab Bag**, Priyabrata Biswas, Sushanta Biswas, Partha Pratim Sarkar, and Dibyendu Ghoshal, “Novel monopole microstrip antennas for GPS, WiMAX, and WLAN applications”, *Journal of Circuits, System, and Computers*, vol. 29, no. 3, 2020 (DOI-10.1142/S0218126620500504). (SCIE).

17. **Biplab Bag**, Priyabrata Biswas, Srija De, Sushanta Biswas and Partha pratim Sarkar, “A wide multi-band monopole antenna for GSM/WiMAX/WLAN/X-band/Ku-band applications”, *Wireless Personal Communications*, Vol. 111, issue-1, pp.- 411-427, 2020. (SCIE).
18. **Biplab Bag**, Priyabrata Biswas, Sushanta Biswas, and Partha Pratim Sarkar, “Wide-bandwidth multifrequency circularly polarized monopole antenna for wireless communication applications”, *International Journal of RF and Microwave Computer-Aided Engineering*, Vol. 29, no. 3, pp.- e21631, 2019. (DOI-10.1002/mmce.21631) (SCIE).
19. **Biplab Bag**, Priyabrata Biswas, Rahul Mondal, Sushanta Biswas, and Partha Pratim Sarkar, “Circularly polarized quad-band monopole antenna of wireless communication system”, *International Journal of RF and Microwave Computer-Aided Engineering*, vol. 29, no. 9, 2019 (DOI-10.1002/mmce.21818). (SCIE).
20. **Biplab Bag**, Priyabrata Biswas, Rahul Mondal, Sushanta Biswas and Partha Pratim Sarkar, “Dual-band dual-sense circularly polarized U- and L-shaped strip monopole antenna for WiMAX/WLAN applications”, *Journal of Electromagnetic Waves and Applications*, Vol. 33, no. 18, 2019. (SCIE)
21. Priyabrata Biswas, Srija De, **Biplab Bag**, Debasree Chanda Sarkar, Sushanta Biswas, and Partha Pratim Sarkar, “Dual ISM band printed antenna with omnidirectional radiation pattern and better radiation efficiency”, *International Journal of RF and Microwave Computer-Aided Engineering*, vol. 29, no.8, 2019 (DOI-10.1002/mmce.21780). (SCIE).
22. **Biplab Bag**, Partha Pratim Sarkar, “Dual band monopole antenna for WLAN/WiMAX applications”, *Revue Roumaine des Sciences Techniques-Serie Electrotechnique et Energetique*, Vol. 63, no. 3, 2018. (SCIE).
23. **Biplab Bag**, Priyabrata Biswas, and Partha Pratim Sarkar, “A quad-band monopole antenna with defected ground plane for L-band/WiMAX/WLAN applications”, *Facta Universitatis Series: Electronics and Energetics*, Vol. 31, no. 4, 2018. (Scopus)
24. **Biplab Bag** and Partha Pratim Sarkar, “A wideband microstrip antenna with enhanced VSWR and GAIN for WLAN/WiMAX application”, *International Journal of Microwave and Optical Technology*, Vol. 13, No. 2, 2018. (Scopus Indexed).
25. **Biplab Bag** and Partha Pratim Sarkar, “Dual band parasitic element patch antenna for LTE/WLAN applications”, *Journal of Electrical and Electronics Engineering*, vol. 10 no. 1, 2017. (Scopus Indexed)

(Conferences)

1. **Biplab Bag**, Sushanta Biswas, and Partha Pratim Sarkar, “Multiband monopole antenna with large bandwidth”, *IEEE International Conference on Advances in Computing, Communication & Materials (ICACCM)*, 21-22 August 2020, Dehradun, India.

2. **Biplab Bag**, Sushanta Biswas, Sushanta Sarkar, and Partha Pratim Sarkar, “Multiband monopole antenna with moderate gain”, *IEEE International Conference for Convergence in Engineering (ICCE 2020)*, 5-6 September, 2020, Kolkata, India.

SKILLS

- Research and analytical expertise in **ANSYS, CST, ADS, MATLAB, Arduino Uno**.

REFERENCES

From academia

Prof. Partha Pratim Sarkar

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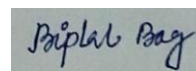
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Associate Professor

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Declaration: I hereby declare that the above particulars are true and correct to the best of my knowledge and belief.



Dr. Biplab Bag