



Techno College of Engineering Agartala

An Engineering College affiliated to Tripura University (A Central University),

Approved by AICTE, MHRD, Govt. of India

Website: www.tiaedu.org

Name of the faculty: Dr. Priyansha Bhowmik

Designation: Associate Professor

Education: B.Tech, M.Tech, Ph.D.

Contact:

Address: Maheshkhola, Agartala, Madhuban, Tripura 799004

Mobile:

Email: priyansha.bhowmik@gmail.com bhowmik.priyansha@tiaedu.org

Research Interest:

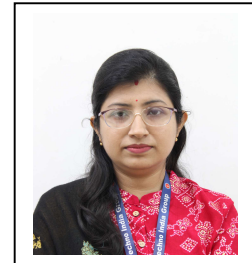
- Antenna
- Microwave

Membership of professional bodies: IEEE Member, IEI Member (AMIE)

Professional Experience: 3 years

Publications:

1. Das, P., Karmakar, A., Halimi, M. A., Bhowmik, P., & Huda, S. (2025). A fractal-based single band DR-rectenna for RF energy harvesting. *Journal of Electromagnetic Waves and Applications*, 39(8), 918–930.
2. Bhowmik, P., & Moyra, T. (2020). Modelling of a UWB balanced-to-unbalanced power divider using coupled lines. *Iranian Journal of Science and Technology, Transactions of Electrical Engineering*.
3. Bhowmik, P., & Moyra, T. (2019). A low-cost compact filtering power divider with wide upper stopband. *Iranian Journal of Science and Technology, Transactions of Electrical Engineering*.
4. Bhowmik, P., & Moyra, T. (2019). A low-cost compact planar dual-band 3 dB branch line coupler using an unbalanced CRLH. *Iranian Journal of Science and Technology, Transactions of Electrical Engineering*.
5. Bhowmik, P., & Moyra, T. (2019). Design of a dual-band microstrip balun from the concept of rat-race coupler. *International Journal of Computational Intelligence & IoT*, 2(2).
6. Sindhuja, K. P., Moyra, T., & Bhowmik, P. (2019). A miniaturized 3 dB branch line coupler using coupled line section with harmonic suppression. *International Journal of Computational Intelligence & IoT*, 2(4).
7. Bhowmik, P., & Moyra, T. (2018). Design of a cheap compact low-pass filter with wide stopband. *Advances in Modelling and Analysis C*, 73(1), 17–22.
8. Bhowmik, P., & Moyra, T. (2018). Design of a compact planar dual-band rat-race coupler using improved microwave C-section. *Electromagnetics*, 38(3), 166–176.
9. Kumari, A., Bhowmik, P., & Moyra, T. (2018). Design and validation of miniaturize rat race coupler based microstrip balun. *AEU - International Journal of Electronics and Communications*, 95, 155–161.
10. Kumari, A., Moyra, T., & Bhowmik, P. (2018). Compact rat-race coupler-based microstrip balun without any isolation port. In *Computing, Communication and Signal Processing: Proceedings of ICCASP 2018*.





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11. Sarkar, D., Moyra, T., & Bhowmik, P. (2018). A low-cost 4.9 GHz balanced bandpass filter with good common mode isolation. *Journal of Electromagnetic Waves and Applications*, 32(1), 43–53.
12. Verma, P., Moyra, T., Sarkar, D., Bhowmik, P., Sen, S., & Kumar, D. (2018). Coplanar waveguide UWB bandpass filter using defected ground structure and interdigital capacitor. In *Progress in Advanced Computing and Intelligent Engineering*.
13. Bhowmik, P., & Moyra, T. (2017). Modelling and validation of a compact planar Butler matrix by removing crossover. *Wireless Personal Communications*, 95(4), 5121–5132.
14. Bhowmik, P., Moyra, T., & Deb, P. K. (2015). Miniaturization and bandwidth enhancement of a loose coupler by DGS. *2015 2nd International Conference on Signal Processing and Integrated Networks (SPIN)*.
15. Bhowmik, P., Moyra, T., & Deb, P. K. (2015). Size miniaturization of 3 dB branch line coupler by using open stubs. *2015 2nd International Conference on Signal Processing and Integrated Networks (SPIN)*.
16. Deb, P. K., Moyra, T., & Bhowmik, P. (2015). Dual band multilayer E-shape microstrip patch antenna for C-band and X-band. *2015 2nd International Conference on Signal Processing and Integrated Networks (SPIN)*.
17. Deb, P. K., Moyra, T., & Bhowmik, P. (2015). Return loss and bandwidth enhancement of microstrip antenna using Defected Ground Structure (DGS). *2015 2nd International Conference on Signal Processing and Integrated Networks (SPIN)*.

Achievements (if any):

- Departmental Gold medallist in M.Tech from NIT Agartala

Hobbies: Reading research papers, listening to music