KRISHNA MAZUMDER

PhD in E&CE (Pursuing)

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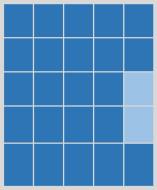
RESEARCH INTEREST

- Planar antennas
- RFID antenna
- MIMO antenna
- RADAR
- Microwave Devices
- Signal Processing
- Communication system

PERSONAL

COMMUNICATION
ORGANIZATION
TEAM PLAYER
CREATIVITY
LEADERSHIP



REFERENCES

Dr. A. Ghosh
Asst Professor Grade I
NITMZ
+91-6009267471
anumoy.ece@nitmz.ac.in

Dr. S. Barma
Associate Professor
IIITG
+91-9007956519
shovan.barma@gmail.com

PERSONAL INFORMATION

D.O.B - 01/09/1984

Language Known: Bengali, English, Hindi.

Marital Status: Single

ABOUT ME

I have over 6 years of experience in teaching and mentorship and have served as the Head of the Department (HOD).I have good leadership and coordination capability. I always show my creativity for tracing, solving and getting around different problems & always enthusiastic to learn new technology.

SKILLS

- **Simulation and Data-Processing software:**
  HFSS, MATLAB, CST Microwave Studio, ADS, P-SPICE
- **Other Software:**
  Microsoft Office, C Language, Arduino, Raspberry pi, Object Oriented Programming
- **Hardware:**
  Network Analyzer (VNA and PNA), Oscilloscope, Signal Generator, set-up other microwave devices, Fabrication Machine, 3D Printer.

EXPERIENCES

Institute	Designation	Duration
North Bengal Science Center (National Council of Science Museums)	Mentor	2 years
JLD college of Engineering and Management	Lecturer	3.5 years
Basantika Institue of Technology	Lecturer	1 year

Last drawn CTC: 6.5 LPA

EDUCATION

Degree	Discipline/ Specializations	Institute	CGPA/ Percentage	Year
PhD (with GATE stipend)	Electronics & Communication Engineering (Antennas)	National Institute of Technology Mizoram	--	Thesis submitted
M-Tech (With GATE Stipend)	Electronics & Communication Engineering (Microwaves)	The University of Burdwan	8.65/10	2017
B-Tech	Electronics & Communication Engineering	West Bengal University of Technology	7.81/10	2009

PROJECTS

- Pursuing a PhD in "RFID Antennas in Vehicle Management" under guidance of Dr. Anumoy Ghosh, NIT Mizoram, Aizwal.
- M-Tech project trainee on topic "Study and Design of Microwave Applicator" at Microwave Tube Division (MWT), under guidance of Dr. Ayan Kumar Bandyopadhyay, CSIR-Central Electronics Engineering Research Institute, Pilani-333031, Rajasthan, August 2016-June 2017.
- B-Tech project work on topic "Study and Design of Microstrip Patch Antenna" under the guidance of Dr. BN Biswas, Academy of Technology, West Bengal.

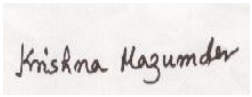
Publications

1. K. Mazumder and A. Ghosh, "A Wideband Folded Dipole RFID Tag with Improved Impedance Matching Technique," 2020 IEEE 4th Conference on Information & Communication Technology (CICT), Chennai, December, 2020, pp. 1-4.
2. K. Mazumder and A. Ghosh, "A Dipole Tag Antenna for Microwave Frequency RFID with Gain Enhancing Technique," 2021 Asian Conference on Innovation in Technology (ASIANCON), Pune, August, 2021, pp. 1-5.
3. K. Mazumder and A. Ghosh, "A Small Scale Circular Polarized Reader Antenna with Wide Beamwidth for RFID Applications," IEEE Conference on Wireless, Antenna and Microwave Symposium, WAMS, Rourkela, June, 2022, pp. 1-5.
4. K. Mazumder, A. Ghosh, "Metal Insensitive High Gain RFID Tag Antenna", International Conference on Micro-Electronics, Electromagnetics and Telecommunications, ICMEET, Kolkata, 2024. (accepted)
5. K. Mazumder, A. Ghosh, A. Bhattacharya, S. Ahmad, A Ghaffar, M. Hussain, "Frequency Switchable Global RFID Tag Antennae with Metal Compatibility for Worldwide Vehicle Transportation" Sensors, 23(8), 3854,2023.
6. Mazumder, A. Ghosh, et al. "An Extensive Application Incorporated with RFID Antenna Deployment Models, Reader and Tag Anti-collision Algorithms to Enhance Vehicle Toll System Efficiency", Electronics, 14, 1404,2025.

7. K. Mazumder, A. Ghosh, et al. “Dual Sense Circularly Polarized Quad Port MIMO RFID Antenna Backed with Electromagnetic Band Gap Structure for Enhanced Axial Ratio and Mutual Coupling”, International Journal of RF and Microwave Computer-Aided Engineering. (under review)

8. K. Mazumder, A.K. Bandyopadhyay, “Design and Study of Microwave Applicator”, National conference on Emerging Trends in Vacuum Electronics Devices and Applications- VEDA 2016 Institute of Plasma Research Bhat, Gandhinagar 382428(Gujrat)

I hereby declare that all the information provided above is true and correct to the best of my knowledge and belief.



Signature