Resume

Dr. DEBASIS MITRA

Assistant Professor,

Electronics & Telecommunications Engineering,
Indian Institute of Engineering Science and Technology(IIEST),
Shibpur, Howrah, India

Academic qualifications:

PhD: **2015** [Electronics & Telecommunication Engineering, Indian Institute of Engineering Science and Technology, Shibpur, India].

Dissertation: Miniaturized Antenna Design with Enhanced Radiation Characteristics

M.Tech: 2009[RF and Microwave Engineering under the dept. of Electronics & Electrical Communication Engineering (E&ECE), Indian Institute of Technology (IIT) Kharagpur, India.]

B.E: 2003[Electronics & Telecommunication Engineering, B.E College(D.U), Shibpur.]

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Area of Research:

- Antenna Engineering for Biomedical application
- Electromagnetic Metamaterials
- Wireless Power Transfer using Metamaterials

Courses Undertaken:

- Antenna Engineering
- RADAR Signal Processing
- Microwave application

Recent Publications:

1. Bratin Ghosh, Moinul Haque, Debasis Mitra, S. Ghosh "A Loop Loading Technique for the Miniaturization of Non-planar and Planar Antennas", IEEE Transactions on Antennas & Propagation., Vol 58, Issue 6 , June 2010.

2. Bratin Ghosh, Moinul Haque, Debasis Mitra , "Miniaturization of Slot Antennas using Slit and strip Loading", IEEE Transactions on Antennas & Propagation ,Vol 59, Issue 10, Oct 2011.

3. Debasis Mitra, Sekhar Ranjan Bhadra Chaudhuri ,"CPW-fed miniaturized Split Ring loaded Slot Antenna" ,WILEY Microwave and Optical Technology Letters, Vol 54, Issue 8, Aug 2012.

4. Debasis Mitra, D. Das, Sekhar Ranjan Bhadra Chaudhuri, "Bandwidth Enhancement of Microstrip line and CPW-fed Asymmetrical Slot Antennas", Progress In Electromagnetics Research Letters, Vol. 32, page 69-79, June2012.

5. Debasis Mitra, S Paul, D.Bhattacharya, Sekhar Ranjan Bhadra Chaudhuri, WILEY Microwave and Optical Technology Letters, Vol 55, Issue 11, Nov 2013.

6. Debasis Mitra, A. Sarkhel, O. Kundu, and S. R. Bhadra Chaudhuri, "Design of compact and high directive slot antennas using grounded metamaterial slab", IEEE Antennas & Wireless Propagation Letters, Vol. 14, 2015.

7. Abhishek Sarkhel, Debasis Mitra, S. Paul and S. R. Bhadra Chaudhuri, "A compact meta-atom for dual band negative permittivity metamaterial " ,WILEY Microwave and Optical Technology Letters, Vol 57, Issue 5, May2015.

8. Swarup Das, Debasis Mitra, Sekhar Ranjan Bhadra Chaudhuri, "Design of UWB Planar Monopole Antennas with Etched Spiral Slot on the Patch for Multiple Band Notched Characteristics", International Journal of Microwave Science and Technology, HINDWAI Publishing, Special Issue - September, 2015.

9. Debasis Mitra, B. Ghosh, A. Sarkhel and Sekhar Ranjan Bhadra Chaudhuri, "Miniaturized Ring Slot Antenna with Enhanced Radiation Characteristics using Metamaterial", IEEE Transactions on Antennas & Propagation., Vol. 64, NO. 1, p.p. 300-305, January, 2016.

10. Jeet Ghosh, Sandip Ghosal, Debasis Mitra, and Sekhar Ranjan Bhadra Chaudhuri, "Mutual Coupling Reduction between Closely Placed Microstrip Patch Antenna Using Meander Line Resonator", Progress In Electromagnetics Research Letters, Vol. 59, pp.115-122, April 2016.

11. Abhishek Sarkhel, Debasis Mitra, and Sekhar Ranjan Bhadra Chaudhuri, "A compact metamaterial with multi-band negative-index characteristics", Appl. Phys. A, Vol-122, pp.471:1-10, March 2016.

12. Tarakeswar Shaw, Aritra Roy, and Debasis Mitra, "Efficiency Enhancement of Wireless Power Transfer System Using MNZ Metamaterials," Progress In Electromagnetics Research C, Vol. 68, 11–19, 2016.

13. M. Sarkar, T.Shaw, R. Datta, P. Saha, and Debasis Mitra,"Design of a Compact Planar Quasi-Yagi Antenna with Enhanced Gain and Bandwidth Using Metamaterial," Progress In Electromagnetics Research Letters, Vol. 62, 125–131, 2016.

14.Tarakeswar Shaw, Deepanjan Bhattacharjee, and Debasis Mitra, "Gain Enhancement of Slot Antenna Using Zero-Index Metamaterial Superstrate", *International Journal of RF and Microwave Computer-Aided Engineering,* Wiley, DOI 10.1002/mmce.21078, Dec. 2, 2016.

15. Rhitam Datta, Tarakeswar Shaw, and Debasis Mitra, "Miniaturization of Microstrip Yagi Array Antenna Using Metamaterial", *Progress in Electromagnetics Research C,* Vol. 72, pp. 151-158, 2017.

16. Gopinath Samanta, Debasis Mitra, and Sekhar Ranjan Bhadra Chaudhuri, "Miniaturization and bandwidth enhancement of a CPW-fed annular slot antenna using RIS," *Progress In Electromagnetics Research Letters*, vol. 65, pp.109-116, 2017.

17. Jeet Ghosh and Debasis Mitra "Mutual coupling reduction in planar antenna by graphene metasurface for THz application," *Journal of Electromagnetic Waves and Applications*, DOI: 10.1080/09205071.2016.1277959, pp-1-10, 2017.

18. Gopinath Samanta, Debasis Mitra, and Sekhar Ranjan BhadraChaudhuri, "Miniaturization of a patch antenna using circular reactive impedance substrate". *International Journal of RF and Microwave Computer-Aided Engineering,* Wiley, DOI: 10.1002/mmce.21126, 2017.

More Information

Recipient of Visvesvaraya Young Faculty Research Fellowship award of Media Lab Asia, under DeitY, Govt. of India.