BIO-DATA

NAME : SATYAJIB BHATTACHARYYA

CURRENT POSITION : Professor, Deptt. of ECE, Tezpur University

: Ph.D. (University of Delhi)

AREAS OF RESEARCH : Microwave Antennas, Microwave materials

SELECTED PUBLICATIONS :

1) Pranjal Borah, Anup Kr. Bordoloi, N. S. Bhattacharyya and S. Bhattacharyya, "Bridged 'V'-shaped patch antenna for dual-band communication, " *Electronics Letters*, vol.48, no.8, April 2012, pp.419-420.
2) D. Sarmah, N. S. Bhattacharyya and S. Bhattacharyya, "Study of graded composite (LDPE/TIO_2) materials as substrate for microstrip patch antennas in X-band", *IEEE Transactions on Dielectrics and Electrical Insulation*, vol. 20, no.5, October 2013, pp.1845-1850.
3) P. Borah and S. Bhattacharyya, "Design of A Dual Band V-Shaped Patch Antenna Using Shorting Posts", *Microwave and Optical Technology Letters*, vol. 58, no. 2, February 2016, pp. 376-378.
4) P. J. Gogoi, M. M. Rabha, S. Bhattacharyya and N. S. Bhattacharyya, "Miniaturization of body worn antenna using nano magneto-dielectric composite as substrate in C-band", *Journal of Magnetism and Magnetic Materials*, vol. 414, 2016, pp. 209–218.
5) S. Chakraborty, N. S. Bhattacharyya and S. Bhattacharyya, "Single layered wide bandwidth nanosized strontium hexa-ferrite filled LLDPE absorber in X-Band", *Progress In Electromagnetics Research B*, vol. 71, 2016, pp. 137-152.

PROJECT DETAILS:

1. Design of Microstrip Patch Antenna on Profiled Thickness Polymer Substrates for Bandwidth Enhancement (AICTE, Govt. of India) - Completed
2. Synthesis and development of broadband EMI shielding materials using magneto- dielectric-nanoparticles (D1T, Govt. of India; Co-PI) - Completed
3. Microwave Technology based Tea Processing Systems for NE States (SAMEER, Govt. of India; Co-PI) - Completed
4. Studies of spin wave Ferromagnetic resonance in spinel ferrite and garnets for high power circulators (BRNS-DAE, Govt. of India; Co-PI) - Completed
5. Design and realization of light weight shield to reduce electromagnetic interference (EMI) at microwave ranges (C & X band) with different geometries for customized applications like anechoic chamber, as terminations and stealth for strategic device camouflaging (MeitY; Co-PI) - Completed
6. Miniaturizerd flexible planar antennas for body worn applications as health monitoring systems in L and S band using nano magneto-dielectric composite as substrate substrate (DST Nano Mission; Co-PI) - Ongoing
7. Early detection of pests on Tea plantations through Multispectral Imaging from Unmanned Aerial Vehicle (MeitY; Co-PI) - Ongoing

SUPERVISION OF Ph. D. SCHOLARS:

1) Degrees awarded - 5

   (2 - Assoc. Supervisor)

OTHER RESPONSIBILITIES AT TEZPUR UNIVERSITY:

1) Head, Deptt. of ECE, Tezpur University (2015 - 2018)
2) Head, Sophisticated Analytical Instrumentation Centre (SAIC), Tezpur University(since inception in 2008 - 2015).
3) Co-ordinator, Instrumentation Maintenance Facility (since inception in 2007 to 2018)
4) Warden, Charaideo Men's Hostel, Tezpur University from January, (Since inception in 2004 to 2007).
5) Member, Board of Management, Tezpur University
6) Member, Academic Council, Tezpur University
7) Member, Research Committee, Tezpur University
8) Convenor, Campus Security Committee
9) Chairman, Canteen Committee
10) Member, Crisis Management Committee, Tezpur University

etc.