BIODATA

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Educational Details:

B. E. in Electronics & Tele Communication, IIEST, Shibpur, West Bengal.

M. E. in Electronics & Tele Communication, Jadavpur University, West Bengal

Ph. D. Electronics & Communication, SVNIT, Surat.

Thesis Title: Design and Analysis of Single and Dual-band Horizontally Polarised Omnidirectional Antenna Using Slotted Patch and Ground for ISM Band.

Areas of expertise: Metamaterial**,** Microstrip filter, Broadband Patch Antenna, MIMO Antenna Design, Horizontal, Vertical and Circularly Polarized Antenna, RF Energy Harvesting, Power amplifier and Low noise Power Amplifier Design.

Specific topic of Interest: Antenna design for 5G and 6G Applications, Beamforming antenna for 5G, 6G , millimetre and terahertz Wave, Antenna designing for Synthetic-aperture radar (SAR).

Courses Taught:

1) ELECTROMAGNETIC WAVES
2) Microwave Engineering
3) Antenna Theory
4) EM INTERFERENCE AND COMPATIBILITY
5) RADAR System
6) Satellite Communication
7) Digital Logic Design
8) Microprocessors

Experience:

Sr. No.	Position held (Designation)	Place of work	Duration	Areas of work
1	Assistant Professor	Sardar Vallabhbhai National Institute of Technology, Surat	2007- Present	Teaching (UG, PG)

List of Publications:

International Journal Publications:

1) G. Santra and P. N. Patel, “Horizontally polarised omnidirectional antenna using slotted rectangular patch and defected ground structure,” IEEE Antennas and Wireless Propagation Letters, vol. 22, no. 4, pp. 704-708, April 2023. (SCIE)

2) G. Santra and P. N. Patel, "Designing an omnidirectional horizontally polarised circular patch antenna implementing unequal open-circuited stubs," in Microwave and Optical Technology Letters, vol. 66, no. 1, pp. e34014, January 2024. https://doi.org/10.1002/mop.34014. (SCIE)

3) G. Santra and P. N. Patel, "A novel dual-band horizontally polarised omnidirectional antenna using slotted ground for Wi-Fi applications," in IETE Journal of Research, pp. 1-7, June 2024. (SCIE)

4) B. Ghosh, K. Chakraborty, G. Santra and K. Sarabandi, "Loop Excitation of a Conical Horn," in IEEE Transactions on Antennas and Propagation, vol. 66, no. 6, pp. 2727-2740, June 2018.

Under Review:

1) G. Santra and P. N. Patel, " Designing a dual-band omnidirectional horizontally polarised patch antenna using slotted patch and ground," in IETE Journal of Research, 2024. (SCIE)

2) G. Santra and P. N. Patel, "A novel technique to design miniaturised dual-band horizontally polarised omnidirectional antenna for Wi-Fi applications," in International Journal of Microwave and Wireless Technologies, 2024. (SCIE)

3) G. Santra, "A Metamaterial Inspired Miniaturised Single Band and Dual-Band Antenna with Linear Polarisation Depending on the Orientation of the Metamaterial," in IETE Journal of Research, 2024. (SCIE)

Conference Papers:

1) T. Shaikh, and G. Santra, “Novel tree shaped fractal dielectric resonator antenna, “ 3rd International Conference on Electrical, Electronics, Engineering Trends, Communication, Optimization and Sciences (EEECOS 2016), 2016.

2) G. Santra and B. Ghosh, "A coaxial fed solid half conical monopole antenna for multiple wireless and Satellite Communications," 2016 International Conference on Radar, Antenna, Microwave, Electronics, and Telecommunications (ICRAMET), Jakarta, Indonesia, pp. 103-105, 2016.

Society Membership details:

The Institution of Electronics and Telecommunication Engineers (IETE): Life Member;

Associate Member (AM-209783)

The Institute of Electrical & Electronics Engineers (IEEE) (Membership Id : 9114307)