Dr. Sudipta Maity, Ph.D. (Engg.)

Assistant Professor
Dept. of Electronics and Comm. Engineering
National Institute of Technology (NIT), Rourkela
Odisha, India – 769008

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COMMUNICATION DETAILS

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EDUCATION

2017 Ph.D. (Engineering),
Dept. of Electronics & Telecommunication Engg.
Jadavpur University, Kolkata, West Bengal – 700032, India

Thesis: "*Theoretical and Experimental Investigations on Different Triangular Shaped Radiators*"

2010 M.E.Tel.E. (Microwave Engineering),
Dept. of Electronics & Telecommunication Engg.
Jadavpur University, Kolkata, West Bengal – 700032, India

Thesis: "*Some Investigations on Dielectric Resonator Antennas*"

2008 B.Tech (Engineering), in Electronics and Communication Engineering
Dept. of Electronics and Communication Engineering
Kalyani Govt. Engg. College, Kalyani, Nadia, West Bengal – 741235, India

WORK EXPERIENCE

Employer	Post Held	Pay Scale	Period of Employment From	To
NIT Rourkela, Odisha, India	Asst. Prof.	AGP Rs.8,000/-	29/03/2023	To Present
NIT Rourkela, Odisha, India	Asst. Prof.	AGP Rs.7,000/-	13/02/2020	28/03/2023
NIT Rourkela, Odisha, India	Asst. Prof.	AGP Rs.6,000/-	23/02/2018	12/02/2020
Institute of Engineering & Management, Kolkata, West Bengal, India	Asst. Prof.	AGP Rs.6,000/-	20/07/2016	22/02/2018
Cognizant Technology Solution (CTS), Kolkata, WB, India	PAT	Rs. 24,000/-	30/08/2010	20/05/2011

RESEARCH PROJECTS UNDERTAKEN

Sl No	Title	Cost in Lakh	Start Date	End Date	Role as PI/ Co-PI	Agency
3	Reduction of Radar Cross Section (RCS) using Metamaterial for Security Application	25.49 Lakh	08-Feb-2023	07-Feb-2026	PI Co-PI: Prof. Subrata Maiti Prof. S. K. Behera	DRDO
2	Analysis, Design, and Fabrication of Conformal Antenna System on Cylindrical and Conical Surfaces for Defence Applications	39.82 Lakhs	07-Feb-2023	06-Feb-2026	PI Co-PI: Prof. P. Chongder	SERB (Core Research Grant)
1	Development of ground penetrating radar for detection of subsurface objects	101.4 Lakh	11 Mar 2019	10 Mar, 2023	Co-PI PI: Subrata Maiti	IMPRINT II, DST

ADMINISTRATIVE RESPONSIBILITY

Responsibility	Tenure	Duty/Responsibility/Remarks
Departmental Representative of Central Library	July 1, 2023 - June 30, 2024	Departmental Representative of Central Library (BPCLAC)
Asst. Warden	July 1, 2020 - June 30, 2022	Asst. Warden of M.V. Hall of residence.
Faculty Advisor	2021 - 2025	Faculty Advisor of B.Tech in Electronics and Communication

		Engineering
Faculty Advisor	2019 - 2021	Faculty Advisor of M.Tech in Microwave and Radar Engineering

CURRENT PH.D. STUDENTS UNDER SUPERVISION

- **Submitted:**

1. **Mr. Jayanta Bhattacharya**, *Theoretical and Experimental Investigations on Antennas and Microwave Devices using Conformal Mapping Technique*, (Thesis submitted on Feb 12, 2024)

- **On-going:**

2. **Mr. Ravi Anand,** *Substrate Integrated Waveguide (SIW),* (On-going, Joined on 22 July, 2019)
3. **Mr. Satya Prasad Mishra,** *Microwave Absorber* (On-going, Joined on 1 Sept, 2021)
4. **Mr. Mirza Wazed Ahmed Begg,** *Conformal Antenna* (On-going, Joined on 25 July, 2023)
5. **Mr. Chandra Vijay Bharati,** *Microwave Absorber* (On-going, Joined on 17 Oct, 2023)
6. **Mr. Dhupam Arun Kumar,** *Investigation of Frequency Selective Surface (FSS) Based Antenna,* (Executive Ph.D., Joined on 16 Feb, 2021)

M.TECH PROJECT (THESIS) SUPERVISION

1. **OAJASWI DEWANGAN** (221EC7588), *Design and Performance Analysis of Conformal Antenna on Cylindrical Surfaces*, Dept. of Electronics and Comm. Engg, NIT Rourkela, Odisha, India, May 2023
2. **GUNNIDHI GOVIND KHETANI** (221EC7404), *Design and Optimization of Wearable Antennas*, Dept. of Electronics and Comm. Engg, NIT Rourkela, Odisha, India, May 2023
3. **MEGHA SHAW** (221EC7151), *Design and Performance Analysis of conformal Antenna on Conical Surface*, Dept. of Electronics and Comm. Engg, NIT Rourkela, Odisha, India, May 2023
4. **Pranay Das** (220EC5542), *Microwave Cloaking for Security Applications*, Dept. of Electronics and Comm. Engg, NIT Rourkela, Odisha, India, May 2022
5. **Jayaram Kurtadi** (220EC5551), *Design and Development of Triband Microstrip Antenna*, Dept. of Electronics and Comm. Engg, NIT Rourkela, Odisha, India, May 2022
6. **Bincy Salim** (220EC7583), *Design of Metamaterial-based Broadband Microwave Absorber for Cloaking Applications*, Dept. of Electronics and Comm. Engg, NIT Rourkela, Odisha, India, May 2022

7. **S. Sambit Satyanarayan** (219EC7512), *Design of Broadband Absorber*, Dept. of Electronics and Comm. Engg, NIT Rourkela, Odisha, India, May 2021
8. **Satrajit Hensh** (219EC7507), *Investigation Of Elliptic Dielectric Resonator Antenna For Dual-Band Application*, Dept. of Electronics and Comm. Engg, NIT Rourkela, Odisha, India, May 2021
9. **G. S. Gulshan** (219EC6495), *Microwave Detection of Metal Cracks*, Dept. of Electronics and Comm. Engg, NIT Rourkela, Odisha, India, May 2021
10. **Gudimetla Rangababu** (218EC7131), *Theoretical Investigations on Mutual Coupling between Two Dipole Antennas*, Dept. of Electronics and Comm. Engg, NIT Rourkela, Odisha, India, May 2020
11. **Masoom Verma** (218EC7133), *Theoretical Investigation of Rhombus Dielectric Resonator Antenna*, Dept. of Electronics and Comm. Engg, NIT Rourkela, Odisha, India, May 2020
12. **Deepika Thakur** (218EC7132), *Theoretical Investigation on Substrate Integrated Waveguide Antenna*, Dept. of Electronics and Comm. Engg, NIT Rourkela, Odisha, India, May 2020
13. **Margam Kalyani** (217EC5391), *Theoretical Investigation of Trapezoidal Microstrip Antenna*, Dept. of Electronics and Comm. Engg, NIT Rourkela, Odisha, India, 28 May 2019

B.TECH PROJECT (THESIS) SUPERVISION

1. **Sathiyaseelan Sankarjee** (119EC0208), *Antenna Design for Space Application*, Dept. of Electronics and Comm. Engg, NIT Rourkela, Odisha, India, May 2023
2. **Nihal Nassar** (118EC0248), *A Dual Band Microstrip Patch Antenna at 2.6GHz and 5.8GHz*, Dept. of Electronics and Comm. Engg, NIT Rourkela, Odisha, India, May 2022
3. **Prem Priyadarshi** (117EC0317), *Circularly Polarized Microstrip Antenna For L1 and L2 Band*, Dept. of Electronics and Comm. Engg, NIT Rourkela, Odisha, India, May 2021
4. **Vandana Rout** (716EC5074), *Design and Analysis of Reconfigurable Dielectric Resonator Antenna*, Dept. of Electronics and Comm. Engg, NIT Rourkela, Odisha, India, May 2021
5. **Anish P. Ranpise** (116EI0371), *Investigations of Filtering Dielectric Resonator Antenna*, Dept. of Electronics and Comm. Engg, NIT Rourkela, Odisha, India, May 2020
6. **Barnali Priyadarshini** (116EC0271), *Design and Analysis of Frequency Reconfigurable Microstrip Antennas*, Dept. of Electronics and Comm. Engg, NIT Rourkela, Odisha, India, May 2020
7. **Deesha Mitra** (116EC0263), *Study On Microstrip Antenna And Substrate Integrated Waveguide*, Dept. of Electronics and Comm. Engg, NIT Rourkela, Odisha, India, May 2020
8. **Rishabh Khemka** (714EC2061), *Signal Decomposition using Machine Learning*, Dept. of Electronics and Comm. Engg, NIT Rourkela, Odisha, India, 27 May 2019
9. **Roddur Dutta** (714EC2062), *Music Synthesizer And Arpeggiator*, Dept. of Electronics and Comm. Engg, NIT Rourkela, Odisha, India, 27 May 2019

10. **Mohini Mohan Behera** (115EI0340), *Real-time Analysis of Crime Activities using Video Surveillance*, Dept. of Electronics and Comm. Engg, NIT Rourkela, Odisha, India, 13 May, 2019
11. **Piyush Sahoo** (114EC0134), *Design of Microstrip Patch Antenna for ISM band Application*, Dept. of Electronics and Comm. Engg, NIT Rourkela, Odisha, India, 13 May 2019
12. **D. Bhattacharyya, K. Mukherji** and **K. Paul**, *Rectangular Ring Shaped Microstrip Patch Antenna*, Dept. of Electronics and Comm. Engg., Institute of Engineering and Management, Kolkata, India, 15 June, 2017

REVIEWER OF JOURNALS

IEEE
Taylor and Francis
Elsevier
Wiley
PIER

PUBLICATIONS

Journal Papers (Refereed): **Total 24**

- ***IEEE Transaction*** : 5
- ***IET*** : 3
- ***Elsevier*** : 4
- ***Taylor & Francis*** : 6
- ***Wiley*** : 5
- ***PIER*** : 1

1. Satya Prasad Mishra and **Sudipta Maity**, "Metamaterial-Based Microwave Absorbers: Current State of Art," ***IEEE Microwave Magazine***, accepted for publication, Oct. 2023
2. **Sudipta Maity**, R. Ghosal and B. Gupta, "Modal Charts of Cylindrical Dielectric Resonators [Application Notes]," ***IEEE Microwave Magazine***, vol. 23, no. 1, pp. 54-71, Jan. 2022 (https://doi.org/10.1109/MMM.2021.3117319)
3. Jayanta Bhattacharya and **Sudipta Maity**, "Investigating Metallic Rectangular Waveguide using Conformal Mapping Technique," ***Journal of Electromagnetic Waves and Applications (Taylor & Francis),*** vol. 35, no. 12, pp. 1553-1563, March, 2021 (https://doi.org/10.1080/09205071.2021.1905561)
4. Jayanta Bhattacharya and **Sudipta Maity**, "Investigation of annular ring microstrip antenna using conformal mapping," ***International Journal of RF and Microwave Computer-Aided Engineering (Wiley),*** vol. 31, No. 5, Article No: e22614, pp. 1-13, Feb 4, 2021 (https://doi.org/10.1002/mmce.22613)
5. **Sudipta Maity** and Bhaskar Gupta, "Closed Form Expressions to Find the Far-field Patterns of an Equilateral Triangular Dielectric Resonator Antenna for Various Higher Order Modes," ***International Journal of RF and Microwave Computer-Aided Engineering (Wiley),*** vol. 31, no. 1, Article No: e22475, pp. 1-12, Oct 11, 2020 (https://doi.org/10.1002/mmce.22475)

6. R. Ghosal, **Sudipta Maity,** Bhaskar Gupta and Arijit Majumder, "Analytical Prediction of Resonant Frequencies of Annular Stacked Dielectric Resonator Antennas," ***International Journal of RF and Microwave Computer-Aided Engineering (Wiley),*** vol. 30, no. 8, Article no. e22237, pp. 1 – 17, Aug. 2020 (https://doi.org/10.1002/mmce.22237)
7. **Sudipta Maity** and Bhaskar Gupta, "Analytic Evaluation of Input Impedance of an Equilateral Triangular Dielectric Resonator Antenna," accepted for publication to ***IETE Journal of Research (Taylor & Francis)*** on Oct 28, 2019 (https://doi.org/10.1080/03772063.2019.1684846)
8. **Sudipta Maity,** Malay Gangopadhyaya and Bhaskar Gupta, "Theory and Experiment on Horizontally Inhomogeneous Rectangular Microstrip Antenna," ***IET Microwaves, Antennas & Propagation*****,** vol. 13, no. 3, pp. 352 – 359, Feb. 2019 (https://doi.org/10.1049/iet-map.2018.5116)
9. **Sudipta Maity,** Rinki Ghosal, Malay Gangopadhyaya and Bhaskar Gupta, "The Complete Modal Chart of CDWG," ***IET Electronic Letters***, vol. 54, no. 19, pp. 1134 – 1135, Sept. 2018 (https://doi.org/10.1049/el.2018.5871)
10. **Sudipta Maity,** Malay Gangopadhyaya and Bhaskar Gupta, "45°–45°–90° Triangular Dielectric Resonator Antenna with Broadside Radiation Patterns," ***AEÜ International Journal of Electronics and Communications (Elsevier)***, vol. 94, pp. 51–54, Sept. 2018(https://doi.org/10.1016/j.aeue.2018.06.040)
11. **Sudipta Maity** and Bhaskar Gupta, "Approximate Theoretical Investigations on Isosceles Triangular Dielectric Resonator Antennas and Experimental Validation," ***IEEE Trans. on Antennas and Propagation***, vol. 66, no. 5, pp. 2640-2643, May 2018 (https://doi.org/10.1109/TAP.2018.2810341)
12. **Sudipta Maity** and Bhaskar Gupta, "Resonant Frequency of 30°–60°–90° Triangular Dielectric Resonator at Fundamental Mode," ***AEÜ International Journal of Electronics and Communications (Elsevier),*** vol. 83, pp. 451-461, Jan 2018 (https://doi.org/10.1016/j.aeue.2017.10.019)
13. **Sudipta Maity** and Bhaskar Gupta,"Radiation Characteristics of an Isosceles 45°-45°-90° Triangular Microstrip Antenna," ***IETE Journal of Research (Taylor & Francis)***, vol.64, no. 1, pp. 139-148, Aug, 2017 (http://dx.doi.org/10.1080/03772063.2017.1341820)
14. **Sudipta Maity** and Bhaskar Gupta, "Theory and Experiments on Horizontally Inhomogeneous Rectangular Dielectric Resonator Antenna," ***AEÜ International Journal of Electronics and Communications (Elsevier)***, vol. 76, pp. 158–165, June 2017 (https://doi.org/10.1016/j.aeue.2017.04.001)
15. **Sudipta Maity** and Bhaskar Gupta,"Approximate Investigations on Isosceles Triangular Microstrip Antenna in Fundamental Mode," ***Microwave and Optical Technology Letters (Wiley)*****,** vol. 59, no. 3, pp. 614-618, March 2017 (http://dx.doi.org/10.1002/mop.30350)
16. **Sudipta Maity** and Bhaskar Gupta,"Simple Procedure to Evaluate Singularity Free Expressions for Radiation Patterns of an Antenna with Rectilinear Symmetry," ***Waves in Random and Complex Media (Taylor & Francis)*****,** vol. 27, no. 3, pp. 526-543, Jan 2017 (http://dx.doi.org/10.1080/17455030.2016.1274457)
17. **Sudipta Maity** and Bhaskar Gupta, "Theoretical Investigations on Equilateral Triangular Dielectric Resonator Antenna," ***IET Microwaves, Antennas & Propagation*****,** vol. 11, no. 2, pp. 184-192, Jan. 2017 (https://doi.org/10.1049/iet-map.2015.0547)
18. **Sudipta Maity** and Bhaskar Gupta, "Experimental Investigations on Wideband Triangular Dielectric Resonator Antenna," ***IEEE Trans. on Antennas and Propagation***, vol. 64, no. 12, pp. 5483-5486, Dec. 2016 (https://doi.org/10.1109/TAP.2016.2607765)
19. **Sudipta Maity** and Bhaskar Gupta, "Cavity Model Analysis of 30°–60°–90° Triangular Microstrip Antenna," ***AEÜ - International Journal of Electronics and Communications(Elsevier)***, vol. 69, pp. 923-932, June 2015 (https://doi.org/10.1016/j.aeue.2015.02.012)
20. **Sudipta Maity** and Bhaskar Gupta, "Closed Form Expressions to Find Radiation Patterns of Rectangular Dielectric Resonator Antennas for Various Modes," ***IEEE Trans. on Antennas and Propagation***, vol. 62, no. 12, pp. 6524-6527, Dec. 2014 (https://doi.org/10.1109/TAP.2014.2361146)

21. **Sudipta Maity** and Bhaskar Gupta, "Simplified Analysis for 30°–60°–90° Triangular Microstrip Antenna," ***Journal of Electromagnetic Waves and Applications(Taylor & Francis)***, vol. 28, no. 01, pp. 91 – 101, Nov. 2013 (http://dx.doi.org/10.1080/09205071.2013.857279)
22. **Sudipta Maity** and Bhaskar Gupta, "Accurate Resonant Frequency of Isosceles Right Angled Triangular Patch Antenna," ***Microwave and Optical Technology Letters(Wiley)***, vol. 55, no. 6, pp. 1306-1308, June 2013 (http://dx.doi.org/10.1002/mop.27536)
23. **Sudipta Maity** and Bhaskar Gupta, "Comments on 'A Triangular Dielectric Resonator Antenna Excited by a Coaxial Probe'," ***Microwave and Optical Technology Letters(Wiley)***, vol. 54, no. 6, pp. 1548, June 2012 (http://dx.doi.org/10.1002/mop.26808)
24. **Sudipta Maity** and Bhaskar Gupta, "Effective Wave Guide Model (EWGM) for Resonant Frequency Computation of Rectangular Dielectric Resonator Antennas," ***Progress In Electromagnetics Research C***, vol. 16, pp.1-12, 2010 (http://dx.doi.org/10.2528/PIERC10070803)

International Conference Papers (Refereed): **Total 37**

1. Jayanta Bhattacharya and **Sudipta Maity**, "Prediction of Cutoff Frequency of Irregular Pentagonal Waveguide," *URSI Regional Conference on Radio Science 2022 (URSI-RCRS)*, IIT (Indore), India, 1 - 4 Dec, 2022 (doi: 10.23919/URSI-RCRS56822.2022.10118542)
2. Satya Prasad Mishra and **Sudipta Maity**, "A Low Cross Polarized Reflection Wideband Microwave Absorber," *URSI Regional Conference on Radio Science 2022 (URSI-RCRS)*, IIT (Indore), India, 1 - 4 Dec, 2022 (doi: 10.23919/URSI-RCRS56822.2022.10118561)
3. Ravi Anand and **Sudipta Maity**, "Design of Substrate Integrated Waveguide-based Metallic Strip Loaded Double Flared Horn Antenna," *URSI Regional Conference on Radio Science 2022 (URSI-RCRS)*, IIT (Indore), India, 1 - 4 Dec, 2022 (doi: 10.23919/URSI-RCRS56822.2022.10118546)
4. Jayanta Bhattacharya and **Sudipta Maity**, "Wide Band Polarization Insensitive Absorber Using Thin Resistive Sheet," 2022 *IEEE Microwave Antenna and Propagation Conference (MAPCON)*, Bangalore, India, 12-15 Dec, 2022 (doi: 10.1109/MAPCON56011.2022.10047737)
5. Satya Prasad Mishra and **Sudipta Maity**, "A Resistive Sheet Based Absorber for Ku Band Applications," 2022 *IEEE Microwave Antenna and Propagation Conference (MAPCON)*, Bangalore, India, 12-15 Dec, 2022 (doi: 10.1109/MAPCON56011.2022.10047431)
6. Ravi Anand and **Sudipta Maity**, "Design of Substrate Integrated Waveguide-Based Periodically-Loaded Archimedean Spiral Slot Leaky Wave Antenna," 2022 *IEEE Microwave Antenna and Propagation Conference (MAPCON)*, Bangalore, India, 12-15 Dec, 2022 (doi: 10.1109/MAPCON56011.2022.10047189)
7. Ravi Anand and **Sudipta Maity**, "Leaky-Wave Radiation from Sinousoidally-Modulated Slots for Ceaseless Scanning Using Substrate Integrated Waveguide," *Antenna Test & Measurement Society (ATMS)*, 2022, 21-23 July 2022
8. Bincy Salim and **Sudipta Maity**, "A Broadband Metamaterial Absorber for Cloaking Applications," *3rd International Conference of Emerging Technologies (INCET) 2022*, Belgaum, Karnataka, India, 27-29 May, 2022. **(doi: 10.1109/INCET54531.2022.9824418)**
9. D. Arun Kumar and **Sudipta Maity**, "Dual-Band Polarization Insensitive Quad-array Slotted Type Frequency Selective Surface with Wide Angular Stability," *2021 Advanced Communication Technologies and Signal Processing (ACTS)*, 2021, 15-17 Dec 2021, pp. 1-5, **(doi: 10.1109/ACTS53447.2021.9708327)**
10. Jayanta Bhattacharya and **Sudipta Maity**, "Design of a Wide Band Thin Microwave Absorber," *2021 IEEE International Microwave and RF Conference (IMaRC 2021)*, Kanpur, India, 17-19 Dec, 2021, pp. 1-4. **(doi: 10.1109/IMaRC49196.2021.9714596)**

11. Ravi Anand and **Sudipta Maity**, "Substrate Integrated Waveguide Based One Dimensional Leaky-Wave Antenna With Enhanced Scanning Range and Consistent Gain Characteristics," *2021 IEEE International Microwave and RF Conference (IMaRC 2021)*, Kanpur, India, 17-19 Dec, 2021 **(doi: 10.1109/IMaRC49196.2021.9714712)**
12. Jayanta Bhattacharya and **Sudipta Maity**, "Prediction of Resonant Frequency of a Pentagonal Microstrip Antenna Using Conformal Mapping Technique," *IEEE Indian Conference on Antennas and Propagation (InCAP 2021)*, Jaipur, India, 13-16 Dec, 2021, pp. 1-5. **(doi: 10.1109/InCAP52216.2021.9726425)**
13. Ravi Anand and **Sudipta Maity**, "Substrate Integrated Waveguide Based Compact Periodic Leaky-Wave Slot Antenna With Improved Beam Scanning Using TE_{10}^{y} Mode," *IEEE Indian Conference on Antennas and Propagation (InCAP 2021)*, Jaipur, India, 13-16 Dec, 2021**, pp. 961-964 (doi: 10.1109/InCAP52216.2021.9726191)**
14. Jayanta Bhattacharya and **Sudipta Maity**, "Analysis of Regular Pentagonal Waveguide Using Conformal Mapping," 2021 Asian Conference on Innovation in Technology (ASIANCON), Pune, India, Aug 28-29, 2021, pp. 1-5. **(doi: 10.1109/ASIANCON51346.2021.9544665)**
15. Jayanta Bhattacharya and **Sudipta Maity**, "Analysis of Hexagonal Waveguide Using Conformal Mapping Technique for dominant TE mode," *International Conference on Range Technology (ICORT)*, ITR, ChandipurIndia, 05 - 06 August, 2021 **(doi: 10.1109/ICORT52730.2021.9581376)**
16. Satrajit Hensh and **Sudipta Maity**, "Elliptic Dielectric resonator Antenna for Dual-band Application," *2021 International Conference on Intelligent Technologies (CONIT)*, Hubli, India, 25-27 June, 2021 **(doi: 10.1109/CONIT51480.2021.9498503)**
17. Ravi Anand, **Sudipta Maity**, and Prasun Chongder, "Hexagonal SIW Cavity-Backed Self-Quadruplexing Slot Antenna," *2nd IEEE sponsored INCET 2021 conference*, Belgaum, Karnataka, India, 21-23 May, 2021 **(doi: 10.1109/INCET51464.2021.9456298)**
18. Ravi Anand and **Sudipta Maity**, "SIW Cavity-Backed Ultrawideband Cirularly Polarized Slot Antenna," 5th *IEEE sponsored ICCMC 2021 conference*, Erude, Tamil Nadu, India, 8-10 April, 2021 **(doi: 10.1109/ICCMC51019.2021.9418323)**
19. Jayanta Bhattacharya and **Sudipta Maity**, "A Comparative Study between Rectangular, Circular and Annular Ring Shaped Microstrip Antennas," *2020 IEEE Calcutta Conference (CALCON)*, Kolkata, India, 28-29 Feb. 2020 **(doi: 10.1109/CALCON49167.2020.9106525)**
20. **Sudipta Maity**, "Investigating Cylindrical Dielectric Resonator Antenna using Imperfect Wall," *2nd Indian National Conference on Antennas & Propagation-INCAP 2019*, Ahmedabad, India, 19-22 Dec, 2019 **(doi: 10.1109/InCAP47789.2019.9134633)**
21. **Sudipta Maity**, Debarshi Das, Naomi Mallik, Soumyajit Chatterjee, Debayan Dutta, Sayan Mukherjee, Argho Dutta, Dipanjana Sinha, Amartya Mukhopadhyay and Malay Gangopadhyay, "Isosceles 45°–45°–90° triangular microstrip antenna as triple band antenna," *2017 8th IEEE Annual Information Technology, Electronics and Mobile Communication Conference (IEMCON)*, Vancouver, BC, 2017, pp. 501-505, 3-5 Oct. 2017 **(doi: 10.1109/IEMCON.2017.8117226)**
22. **Sudipta Maity**, D. Das, A. K. Pandey, A. Kumar, M. Varshini, S. Jana, S. Sangaheria, S. Shukla, A. Gope and M. Gangopadhyay, "Dual Band 30°–30°–120° triangular dielectric resonator antenna," *2017 8th IEEE Annual Information Technology, Electronics and Mobile Communication Conference (IEMCON)*, Vancouver, BC, 2017, pp. 493-496, 3-5 Oct. 2017 **(doi: 10.1109/IEMCON.2017.8117224)**
23. **Sudipta Maity**, Rishav Saha, Rupkatha Basu, Ritam De, Anwesha Pal, Harsh Vardhan Singh and Malay Gangopadhyay, "The 45°–45°–90° triangular dielectric resonator antenna," *2017 8th Annual Industrial Automation and Electromechanical Engineering Conference (IEMECON)*, Bangkok, 2017, pp. 300-302, 16-18 Aug. 2017 **(doi: 10.1109/IEMECON.2017.8079609)**
24. **Sudipta Maity**, Malay Gangopadhyaya and Bhaskar Gupta, "Resonant Frequency of an Inhomogeneous Rectangular Microstrip Antenna," *IEEE and URSI sponsored 1st International Conference on Electronics, Materials Engineering and Nano-Technology (IEMENTech 2017)*, Kolkata, India, 23 April 2017 **(Young Scientist Award) (doi: 10.1109/IEMENTECH.2017.8076927)**

25. R. Sengupta, S. Ghosh, S. N. Ray, S. K. Das, M. Gangopadhyay, **Sudipta Maity** and B. Gill, "On the excitation of higher order modes of an equilateral triangular Dielectric Resonator Antenna," *2016 IEEE 7th Annual Information Technology, Electronics and Mobile Communication Conference (IEMCON)*, Vancouver, BC, Canada, 2016, pp. 1-4, 13-15 Oct. 2016. **(doi: 10.1109/IEMCON.2016.7746356)**
26. Prerna, S. Sarkar, A. Bhattacharjee, A. Kundu, D. Das, M. Gangopadhyay, **Sudipta Maity** and B. Gill, "30°-60°-90° Triangular Dielectric Resonator Antenna: A new shaped Dielectric Resonator Antenna," *2016 IEEE 7th Annual Information Technology, Electronics and Mobile Communication Conference (IEMCON)*, Vancouver, BC, Canada, 2016, pp. 1-4, 13-15 Oct. 2016 **(doi: 10.1109/IEMCON.2016.7746357)**
27. **Sudipta Maity** and Bhaskar Gupta**,** "Resonant Frequency of Isosceles Right Angled Triangular Dielectric Resonator Antenna," *URSI Regional Conference in Radio Science (RCRS) 2014*, Pune, India, 2-5 Jan 2014
28. **Sudipta Maity** and Bhaskar Gupta, "Input Impedance of Probe Fed Rectangular Dielectric Resonator Antenna," *URSI Regional Conference in Radio Science (RCRS) 2014*, Pune, India, 2-5 Jan 2014 **(2nd Prize)**
29. **Sudipta Maity**, "Approximate Solution for Fundamental Mode of 45°–45°–90° Triangular Microstrip Antenna," 4th *IEEE Applied Electromagnetic Conference (AEMC) 2013*, Bhubaneswar, India, 18-20 Dec, 2013, pp. 1-2 **(2nd Prize)** (**doi: 10.1109/AEMC.2013.7045106**)
30. Sayantan Dhar, **Sudipta Maity**, Bhaskar Gupta, D. R. Poddar and Rowdra Ghatak, "A CPW Fed Slot Loop Minkowski Fractal Antenna With Enhanced Channel Selectivity," *IEEE International Conference on Communications, Devices and Intelligent Systems (CODIS)* 2012, Papre ID: 121, 28-29 Dec, 2012, pp. 542-545 **(Best Paper Award) (doi: 10.1109/CODIS.2012.6422259)**
31. **Sudipta Maity**, Sanghamitra Dasgupta and Bhaskar Gupta, "Resonant Frequency and Field Solution of Isosceles Triangular Dielectric Resonator Antenna," 31st *Progress In Electromagnetics Research* Symposium (PIERS) -2012, ISBN: 978-1-934142-20-2, Kuala Lumpur, Malaysia, pp. 1113 – 1115, 27-30 March 2012
32. **Sudipta Maity**, Sanghamitra Dasgupta and Bhaskar Gupta, "Wideband Isosceles 75°-30°-75° Triangular Dielectric Resonator Antenna," 31st *Progress In Electromagnetics Research* Symposium (PIERS) -2012, ISBN: 978-1-934142-20-2, Kuala Lumpur, Malaysia, pp. 1109 – 1112, 27-30 March 2012
33. **Sudipta Maity**, Sanghamitra Dasgupta and Bhaskar Gupta, "Fast Adaptive Least Mean Square Algorithm," 31st*Progress In Electromagnetics Research* Symposium (PIERS) -2012, ISBN: 978-1-934142-20-2, Kuala Lumpur, Malaysia, pp. 1666 – 1669, 27-30 March 2012
34. **Sudipta Maity**, "Hybrid Triangular Dielectric Resonator Antenna (DRA) for WLAN/ISM Application," *IEEE Indian Antenna Week (IAW) 2011*, Kolkata, India, paper ID: SPC – 1052, pp. 1-4, 18-22 Dec, 2011 **(1st Prize) (doi: 10.1109/IndianAW.2011.6264902)**
35. **Sudipta Maity**, Sanghamitra Dasgupta and Bhaskar Gupta, "On the Solution of Isosceles 120° Triangular Dielectric Resonator Antenna," *7th International Conference on microwaves, Antenna, Propagation and Remote Sensing*, ICMARS-2011, Jodhpur, India, abstract pp. 34-35, 7-10 Dec 2011 **(1st Prize)**
36. **Sudipta Maity**, Sanghamitra Dasgupta and Bhaskar Gupta, "More Accurate Resonant Frequency Evaluation of Triangular Isosceles 120° Patch Antenna," *7th International Conference on microwaves, Antenna, Propagation and Remote Sensing*, ICMARS-2011, Jodhpur, India, abstract pp. 96-97, 7-10 Dec 2011 **(2nd Prize)**
37. **Sudipta Maity**, Sayantan Dhar and Bhaskar Gupta, "Variation of Probe Offset Position with Probe Length of Rectangular Dielectric Resonator Antenna," *International Symposium on Microwaves (ISM) -2010*, Bangalore, India, pp. 338-341, Dec, 2010

National Conference Papers (Refereed): **Total 2**

38. Pranay Das and **Sudipta Maity**, "A Wideband Metamaterial-based Microwave Absorber," *3rd National Conference on Communication Systems (NCOCS)*, Puducherry, India, Dec, 2021

39. Rajendra Prosad Ghosh, **Sudipta Maity**, Bhaskar Gupta and S. K. Chowdhury, "Broadband Printed Dipole Antenna with Circular Slots on Arms," *National Conferesnce on Recent Advances in Microwave Engg*, Gwalior, India, Dec 16-17, 2011

Awards: **Total 15**

1. My student, Mr. Jayanta Bhattacharya has received the "Best Paper Award" for presenting the paper titled "Analysis of Octagonal Microstrip Antenna for The Fundamental Mode," 2023 International Conference on Range Technology (ICORT), Chandipur, India, 23 to 25 February 2023

2. Recipient of a recognition and appreciation from ***IEEE Antennas and Propagation Society*** for exceptional performance from ***May 1, 2022*** to ***April 30, 2023*** as a Reviewer of the ***IEEE Transactions on Antennas and Propagation***.

3. Recipient of a recognition and appreciation from ***IEEE Antennas and Propagation Society*** for exceptional performance from ***May 1, 2021*** to ***April 30, 2022*** as a Reviewer of the ***IEEE Transactions on Antennas and Propagation***.

4. Recipient of a recognition and appreciation from ***IEEE Antennas and Propagation Society*** for exceptional performance from ***May 1, 2020*** to ***April 30, 2021*** as a Reviewer of the ***IEEE Transactions on Antennas and Propagation***.

5. Recipient of a recognition and appreciation from ***IEEE Antennas and Propagation Society*** for exceptional performance from ***May 1, 2018*** to ***April 30, 2019*** as a Reviewer of the ***IEEE Transactions on Antennas and Propagation***.

6. Recipient of **"Young Scientist Award"** paper competition for presenting the paper titled "Resonant Frequency of an Inhomogeneous Rectangular Microstrip Antenna," *IEEE and URSI sponsored 1st International Conference on Electronics, Materials Engineering and Nano-Technology (IEMENTech 2017)*, Kolkata, India, April 2017

7. Recipient of **2nd Prize** in Young Scientist Award paper competition for the paper titled **"Input Impedance of Probe Fed Rectangular Dielectric Resonator Antenna,"** URSI Regional Conference in Radio Science (RCRS) 2014, Pune, India, Jan 2014

8. Recipient of **2nd prize** in the Student Paper Contest (SPC) for the paper titled **"Approximate Solution for Fundamental Mode of 45°–45°–90°Triangular Microstrip Antenna,"** 4th IEEE Applied Electromagnetic Conference (AEMC) 2013, Bhubaneswar, India, Dec 2013

9. Recipient of **1st prize** in the Student Paper Contest (SPC) for the paper titled **"Hybrid Triangular Dielectric Resonator Antenna (DRA) for WLAN/ISM Application,"** *IEEE Indian Antenna Week (IAW)-2011*, Kolkata, India, Dec 2011

10. **1st Prize** for oral presentation in the technical session on Antenna Analysis, Synthesis and Measurement for the paper titled **"On the Solution of Isosceles 120° Triangular Dielectric Resonator Antenna,"** *7th International Conference on microwaves, Antenna, Propagation and Remote Sensing*, ICMARS-2011, Jodhpur, India, Dec 2011

11. **2nd Prize** for poster presentation in the technical session on Antenna Analysis, Synthesis and Measurement for the paper titled **"More Accurate Resonant Frequency Evaluation of Triangular Isosceles 120° Patch Antenna,"***7th International Conference on microwaves, Antenna, Propagation and Remote Sensing*, ICMARS-2011, Jodhpur, India, Dec 2011

12. **Co-author** of **best paper award** for the paper titled "**A CPW Fed Slot Loop Minkowski Fractal Antenna With Enhanced Channel Selectivity**" International Conference on Communications, Devices and Intelligent Systems (CODIS) 2012, Paper ID: 121, Dec, 2012
13. Recipient of **Senior Research Fellowship (SRF)** from **CSIR, Govt. of India** (April 01, 2013 to May 31, 2015).
14. Recipient of **Senior Research Fellowship (SRF)** from **DST-PURSE, Govt. of India** (May 30, 2011 to March 31, 2013).
15. **Stood 3rd position in M.E.Tel.E., Dept of Electronics and Telecommunication Engg, Jadavpur University, Kolkata, West Bengal, India**
16. **National Merit Scholarship '04, Govt. of India (2004 - 2008)**
17. **More than 30 prizes in Fine Arts Competitions (1995 - 2000)**

INVITED TALKS: **TOTAL 3**

1. Presented a technical talk, titled **"Investigations on Different Triangular Shaped Radiators"** in Young Scientist Colloquium, *IEEE AP-MTT Kolkata chapter*, Kolkata, India on 14th Sept, 2012
2. Presented a technical talk, titled **"Microstrip and Dielectric Resonator Antennas; Overview of Analytical Techniques"** in *IEEE AP-MTT Lecture Meeting*at APC Conference Hall, Netaji Subhash Engineering College, Technocity, Garia, Kolkata on 9th April, 2014
3. Presented a technical talk, titled **"Dielectric Resonant Antenna Design and Simulations"** in the faculty development programme on "Recent Trends in Antenna Design and Applications", organized by E & ICT academy, NIT, Warangal and Department of Electronics and Communication Engineering, Vasavi College of Engineering, Hyderabad, 12th December, 2021

DEPARTMENTAL ACTIVITIES: **SINCE FEB 23, 2018**

Academic Year: 2023-24

1. Worked as a member of "Departmental Information Committee" for academic year 2023-24.
2. Worked as a member of "Accreditation/ranking/NBA Visit" for academic year 2023-24.
3. Departmental Representative of Central Library (BPCLAC) for 2023-2024

Academic Year: 2022-23

1. Worked as PIC-Curriculum along with Prof. Ajit Kumar Sahoo for academic year 2022-23.
2. Worked as a member of "Departmental Information Committee" for academic year 2022-23.
3. Worked as a member of "Accreditation/ranking/NBA Visit" for academic year 2022-23.

Academic Year: 2021-22

1. Worked as an Asst. Warden of M. V. Hall of Residence from 30 Jun, 2020 to 30 Jun, 2022.
2. Faculty Advisor of B.Tech EC branch (Batch: 2021-25)
3. Worked as PIC-Curriculum along with Prof. Ajit Kumar Sahoo for academic year 2021-22.
4. Worked as a member of "Departmental Information Committee" for academic year 2021-22.
5. Worked as a member of "Accreditation/ranking/NBA Visit" for academic year 2021-22.

Academic Year: 2020-21

1. Worked as an Asst. Warden of M. V. Hall of Residence from 30 Jun, 2020 to 30 Jun, 2022.
2. Worked as PIC-Curriculum along with Prof. Ajit Kumar Sahoo for academic year 2020-21.
3. Worked as a member of "Departmental Information Committee" for academic year 2020-21.
4. Worked as a member of "Accreditation/ranking/NBA Visit" for academic year 2020-21.
5. Faculty Advisor of M.Tech Microwave and Radar specialization (Batch: 2019-21)

Academic Year: 2019-20

1. Worked as PIC-Curriculum along with Prof. Ajit Kumar Sahoo for academic year 2019-20.
2. Worked as a member of "Departmental Information Committee" for academic year 2019-20.
3. Worked as a member of "Accreditation/ranking/NBA Visit" for academic year 2019-20.
4. Faculty Advisor of M.Tech Microwave and Radar specialization (Batch: 2019-21)

Academic Year: 2018-19

1. Worked as PIC-Curriculum along with Prof. Ajit Kumar Sahoo for academic year 2018-19.
2. Worked as a member of "Departmental Information Committee" for academic year 2018-19.
3. Worked as a member of "Accreditation/ranking/NBA Visit" for academic year 2018-19.