

Faculty Profile

Name : Dr. Richa Gupta
Designation : Assistant Professor
Qualifications : Ph.D, M.Tech, B.Tech.
Phone : 011-25528117
9899500200
Email : richagupta@msit.in
Area of Interest/Specialization: Antenna Design, Embedded Systems
Experience : 17 Years

Key Publications

1. Gupta, Richa & Yadav, Deepshikha & Rao, Meena & Gaur, Ankit. (2021). Design and Testing of SMPS in Accordance with IEC 61000-4-11 Standard with Measurement Uncertainty. MAPAN. 10.1007/s12647-021-00492-8. Indexing SCIE, SCOPUS, UGC-CARE
2. Gupta, R., Varshney, G. and Yaduvanshi, R.S., 2021. Tunable terahertz circularly polarized dielectric resonator antenna. *Optik*, 239, p.166800. Indexing SCIE
3. Yaduvanshi, R.S., Gupta, R. and Katiyar, S., 2020. Smart DRA for beam width and orientation control. *Frequenz*, 74(11-12), pp.383-392. . Indexing SCIE
4. Gupta, R., Gaur, A., Gupta, S. and Bakshi, G., 2021. Circularly Polarized Multiple Layer Dielectric Resonator Antennas. *Progress In Electromagnetics Research C*, 112, pp.139-151. Indexing SCOPUS
5. Bansal, A., Bakshi, G. and Bansal, A., 2020. Dual-band circularly polarized stacked sapphire and TMM13i rectangular DRA. *Progress In Electromagnetics Research M*, 91, pp.143-153. Indexing ESCI
6. A. Bansal, V. Srivastava, and R. Gupta, "Integrated Model for Design of SWS and Beam-Wave Interaction Analysis of a Planar THz Sheet-Beam TWT," *Progress In Electromagnetics Research M*, Vol. 87, 179-187, 2019. Indexing ESCI
7. R. Gupta, ,A. Vaish (2016). Deminiaturized Mode Control Rectangular Dielectric Resonator Antenna. *Progress In Electromagnetics Research*, 86, 173-182 Indexing ESCI
8. A. Bansal ,R.Gupta "A review on Microstrip patch antenna and feeding techniques" *International Journal of Information Technology*, Springer, March 2018 Indexing SCOPUS
9. R. Gupta, R. Yaduvanshi "Embedded cylindrical magneto-hydrodynamic antenna", *International Journal of Ultra-wideband Communication*, Inderscience , vol. 3, no. 2, pp. 68-72 , 2015. ISSN online: 1758-7298 Indexing SCOPUS
10. R. Gupta, R. Yaduvanshi "High gain and wide band Rectangular DRA, *International Journal of Ultra-wideband Communication*", Inderscience, vol. 3, no. 2, pp. 107-114, 2015. ISSN online: 1758-7298 Indexing SCOPUS

Paper Published in conferences

1. R. Gupta, R. Yaduvanshi and T. Sharma, "Cylindrical Inhomogenous Dielectric Magneto-Hydro-Dynamic Antenna", in *IEEE International Conference on Computing for Sustainable Global Development*, pp. 825-828, 2014. . ISBN 978-93-80544-12-0
2. R. Gupta and R. Yaduvanshi, "Reconfigurable Aperture Coupled Rectangular Dielectric Resonator Antenna", in *IEEE International Conference on Computing for Sustainable Global Development*, pp 859-862, 2015. ISBN 978-9-3805-4416-8

3. R. Gupta and R. Yaduvanshi, “*Superstrate Embedded Hybrid MHD Antenna*” in IEEE International Conference INDICON-2015 ,pp 1-5, 2015, ISBN 978-1-4673-6540-6
4. R.Yaduvanshi,,H.parthasarathy,A.De, R.Gupta “*Fluid Frame Magneto-hydrodynamic Antenna*” IEEE International Conference Communication Systems and Network Technologies (CSNT), 2012 ,ISBN 978-0-7695-4692-6
5. Richa Gupta, AakashBansal, ShivamSehgal, AyushGirdhar,KshitijTomar “AnyTouch: Design and Implementation of a Touch Interface for Bluetooth Enabled Personal Devices” in ICPR-2017 International Springer conference held at AIACTR 22-23 Dec 2017
6. Richa Gupta” Gain and Bandwidth enhancement techniques for Microstrip antenna in ISM band”The International conference on signal processing,VLSI and Communication Engineering ,(ICSPVCE-2019),Delhi Technological University,Delhi,28-30 March 2019
7. Richa Gupta “Bandwidth and Gain enhancement techniques of DRA antenna” ICAIA2020: The International springer Conference on Artificial Intelligence and Applications” Maharaja Surajmal Institute of Technology New Delhi, India, February 7-8, 2020
8. Richa Gupta ” Design of Hexagonal Microstrip Patch Antenna for Bandwidth Enhancement And Miniaturisation”
9. “International online conference on advances in computing, communication, and green technologies”Ansal University, Gurgaon,2020
10. Richa Gupta ”Multilayer Stacked Rectangular Dielectric Resonator Antenna “International online conference on advances in computing, communication, and green technologies”Ansal University, Gurgaon,2020
11. Richa Gupta, Deepshikha Yadav, Meena Rao, Ankit Gaur “Design & testing of SMPS in accordance with IEC-61000-4-11 standard with lower measurement uncertainty”. Paper presented in 7th National Conference on Advances in Metrology (AdMet 2021), Springer, held at Maharaja Surajmal Institute of Technology, New Delhi on 5th-6th March 2021

Awards and Recognitions

1. Certificate of appreciation in recognition of exemplary contribution towards education excellence from DKOPS lab Pvt. Ltd.
2. Certificate of appreciation from Texas instruments for mentoring students in project work.
3. Expert Speaker in FDP program in AIACTR,Geeta Colony,Delhi.
4. Best paper certificate “Superstrate Embedded Hybrid MHD Antenna” IEEE INDICON-2015 held at Jamia Millia Islamia, New Delhi, India from 17-20 December 2015.
5. Certificate of appreciation from Maharaja Surajmal Institute of Technology for excellent results in last 3 academic sessions
6. Got International Scientist Awards 2021 On Engineering, Science and Medicine 28 & 29-Aug 2021Trivandrum, India
- 7.

Patent/Copyright

A Smart Adaptive Neural Fuzzy Interface Supervised Active Power Filter for Harmonic Distortion Control in AC Power Driven IOT Devices, 202011009012 A/ MARCH 2020

Book Chapter/Books published

"Bandwidth and Gain Enhancement Techniques of DRA Antenna” Proceedings of International Conference on Artificial Intelligence and Applications, 978-981-15-4991-5, 490533_1_En,Chapter 22

Memberships of Professional bodies

Indian **Meteorological Society**

Other Contributions:

1. Setup Research lab in collaboration of IEEE in MSIT ECE Dept. 'Antenna and Wave Propagation and Printed Circuit Board Laboratory" (AWP-PCB lab) in 2019
2. College Library Automation Project Coordinator
3. Regional Course coordinator at Indian space research organization
4. Session chair in Admet 2021
5. Member, Technical Program Committee 2nd International Conference on Communication, Engineering and Computer Networks, 1st-2nd Nov., 2021
6. Session Chair in the Springer 5th International Conference on Micro-Electronics and Telecommunication Engineering (ICMETE-2021), to be conducted on 24-25, September, 2021 through ONLINE mode
7. **Co-coordinated** Organization of AICTE-ISTE sponsored Refresher programme on "Use of ICT in Engineering Education" in three different slots in the year 2021