

## BIO-DATA



Name : **Dr. Summaiyya Saleem**  
Date of Birth : 05.11.1992  
Father's Name : Dr. Mohammad Saleem

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Department of Physics,  
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### Working Status:

- *From 3<sup>rd</sup> Sept. 2019 – till date.*: Presently working as an Assistant Professor in Department of Physics, University of Rajasthan, Jaipur.

### Educational Qualifications:

S. No.	Degree	Subject	Institute	Remarks	Percentage
1.	*Ph.D. (2024)	Physics	University of Rajasthan, Jaipur, India	Submitted: Nov. 2023 Awarded: June 2024	
3.	M.Sc. (2016)	Physics	University of Rajasthan, Jaipur, India		92%
2.	N.E.T. (Dec. 2015)	Physics	C.S.I.R., New Delhi, India	63 <sup>rd</sup> Rank	
4.	B.Sc. (2014)	PCM	University of Rajasthan, Jaipur, India	8 <sup>th</sup> rank in University merit list	84.44%
5.	12 <sup>th</sup> (2011)	PCM	Saint Soldier Public School, Jaipur	Subject topper in Chemistry and English	92.8%
6.	10 <sup>th</sup> (2009)	All subjects	Adarsh Public Senior Secondary School, Jaipur		87.17%

- \* Ph.D. Degree in Physics/Electronics & Communication entitled “*Design and Development of Reconfigurable Multiple-Input Multiple-Output (MIMO) Antennas for Modern Wireless Communication System*”, University of Rajasthan, Jaipur, India in 2024 under the supervision of Dr. Sarita Kumari.

**Awards & Fellowships:**

- CSIR – National Eligibility Test: CSIR-NET Dec. 2015, CSIR-UGC NET June 2017, CSIR NET-JRF Dec. 2017, CSIR-UGC NET Dec. 2018.
- Gold Medalist (Mathematics) in 2014 at UG level<sup>#</sup>
- Joint Entrance Screening Test (JEST) in 2016 (All India Rank: 504).
- Qualified GATE Exam 2017 (AIR 760) and GATE 2018 Exam (AIR 364).
- Eighth position in University of Rajasthan in B.Sc.

# SMT. HANDA GOLD MEDAL in B Sc. for securing highest marks in Mathematics.

**Interviewed/Shortlisted:**

- BARC OCES/DGFS 2017 interview, BARC OCES/DGFS 2018 interview; IUAC, New Delhi 2017 interview for the position of Scientist (trainee); ONGC 2017 interview for the post of Geophysicist (Wells).

**Reviewer for National/International Journals**

- Indian Journal of Pure & Applied Physics (IJPAP)
- Wireless Personal Communications

**Teaching experience:**

S. No.	Institute	Post	Teaching level	Time duration
1.	S.S. Jain Subodh PG Autonomous College, Jaipur	Guest lecturer	B. Sc.	July 2017 – March 2018
2.	University Maharani’s College, Jaipur	Guest lecturer	B.C.A.	Sept. 2017 – Feb. 2018
3.	Dr. B. R. Ambedkar P.G. College, Jaipur	Guest lecturer	M.Sc.	June – Dec. 2018

**Orientation/ Refresher course attended:**

- 112<sup>th</sup> Orientation Programme at Human Resources Development Centre, University of Rajasthan, Jaipur, from 25<sup>th</sup> Nov. – 14<sup>th</sup> Dec 2019.
- Refresher Course in Sciences: Organic Electronics at Human Resources Development Centre, University of Rajasthan, Jaipur, from 15<sup>th</sup> Feb. – 27<sup>th</sup> Feb 2021.
- NEP Orientation & Sensitization Programme organized by UGC - Malaviya Mission-Teacher Training Centre, University of Rajasthan, Jaipur, 08.01.2024-20.01.2024.

**Research Fields:** Microstrip Antennas, MIMO Antennas, Frequency Reconfigurable Antennas

**List of publications:** [h-index: 3]

International Journals: **05**

Proceeding papers at National & International level: **06**

**Journal Publications:**

1. **Summaiyya Saleem**, Sarita Kumari, Dinesh Yadav, Mohd. Gulman Siddiqui and Deepak Bhatnagar, “A Planar UWB-MIMO antenna with high isolation and reconfigurable single band-elimination characteristics,” AEU- International Journal of Electronics and Communications, 154853, vol. 170, 2023. <https://doi.org/10.1016/j.aeue.2023.154853>
2. **Summaiyya Saleem**, Deepak Bhatnagar, Sarita Kumari, Mohd. Gulman Siddiqui and Dinesh Yadav, “High Isolation Frequency-Reconfigurable UWB-MIMO Antenna with On-Demand WiMAX Band Elimination,” Frequenz, 2023. <https://doi.org/10.1515/freq-2023-0033>
3. **Summaiyya Saleem**, Sarita Kumari, Vinita Mirdha, Dinesh Yadav and Deepak Bhatnagar, “Circular split ring resonator (SRR) slot and ground stub based slotted circular ultra-wideband MIMO antenna with WLAN band exclusion and high isolation performance”, Sadhana, Vol. 49, Article No. 26, 2024. <https://doi.org/10.1007/s12046-023-02356-0>
4. Vinita Mirdha, Deepak Bhatnagar, **Summaiyya Saleem**, Brajraj Sharma, Krishan G. Jangid, “Circularly Polarized Antenna with Metallic Reflector for High-Gain Satellite Communication”, International Journal on Recent and Innovation Trends in Computing and Communication, ISSN: 2321-8169 Volume: 11 Issue: 4, pp. 91-97, 2023. DOI: <https://doi.org/10.17762/ijritcc.v11i4.6391>
5. Vinita Mirdha, Deepak Bhatnagar, **Summaiyya Saleem**, Krishan G. Jangid, Brajraj Sharma, “Circularly Polarized Microstrip Patch Antenna for L Band Satellite Application”, International Journal of Research in Engineering and Science (IJRES), Vol. 11, No. 5, ISSN (Online): 2320-9364, ISSN (Print): 2320-9356, pp. 867-871, 2023.

### **Proceeding papers at National & International Conferences:**

- 1. Summaiyya Saleem**, Sarita Kumari, Dinesh Yadav, Deepak Bhatnagar, “SRR Loaded WLAN Band-Notched UWB MIMO Antenna with Spatial Diversity Characteristics”, In: Tiwari M., Maddila R.K., Garg A.K., Kumar A., Yupapin P. (eds) *Optical and Wireless Technologies. Lecture Notes in Electrical Engineering*, vol 771. Springer, Singapore, Sept. 2021. [https://doi.org/10.1007/978-981-16-2818-4\\_33](https://doi.org/10.1007/978-981-16-2818-4_33).
- 2. Summaiyya Saleem**, Sarita Kumari, Dinesh Yadav, Deepak Bhatnagar, “A High Isolation UWB-MIMO Antenna with Dual Band Rejection Property”, *2020 IEEE International Conference on Computing, Power and Communication Technologies (GUCON) Galgotias University, Greater Noida, UP, India, Oct 2-4, 2020*. <https://doi.org/10.1109/GUCON48875.2020.9231198>
- 3. Summaiyya Saleem**, Sarita Kumari, Dinesh Yadav, Deepak Bhatnagar, “Frequency Tunable Slot Antenna for Wireless Applications”, *2021 IEEE 4th International Conference on Computing, Power and Communication Technologies (GUCON) University of Malaya, Kuala Lumpur, Malaysia, Sept 24-26, 2021*. <https://doi.org/10.1109/GUCON50781.2021.9573522>
- 4. Summaiyya Saleem**, Sarita Kumari, Dinesh Yadav, Deepak Bhatnagar, “Frequency Reconfigurable MIMO (Multiple-Input Multiple-Output) Antenna for Ultrawideband Applications”, *2021 IEEE Indian Conference on Antennas and Propagation (InCAP)*, pp. 816-819, 2021. <https://doi.org/10.1109/InCAP52216.2021.9726341>
- 5. Summaiyya Saleem**, Sarita Kumari, Dinesh Yadav, Deepak Bhatnagar, “Compact Millimeter-Wave MIMO (Multiple-Input Multiple-Output) Antenna for 5G Applications”, *2021 IEEE Indian Conference on Antennas and Propagation (InCAP)*, pp. 1035-1038, 2021. <https://doi.org/10.1109/InCAP52216.2021.9726389>
- 6. Summaiyya Saleem**, Sarita Kumari, Dinesh Yadav and Deepak Bhatnagar, “A compact slot and strip-loaded ultrawideband antenna with reconfigurable band-notched behaviour”, *2022 IEEE Microwaves, Antennas and Propagation Conference (MAPCON)*, Bangalore, India, pp. 1541-1545, Dec. 12-16, 2022. <https://doi.org/10.1109/MAPCON56011.2022.10047778>

### **Workshops/ FDP/ STC Attended:**

- One day workshop on Patent Awareness at Centre of Converging Technologies, University of Rajasthan, Jaipur on 24<sup>th</sup> October, 2018.
- Workshop on Design-Evolution and Computational Synthesis of Multi -Domain Engineering System organized by Department of Electronics, Banasthali Vidyapith on December 24-30, 2018.
- One day workshop on NI-AWR Software held on 27<sup>th</sup> May, 2019 at Department of Electronics & Communication Engineering, MNIT, Jaipur.
- One week Faculty Development Program on Antenna Trends organized by EICT Academies at IIT Guwahati, NIT Patna, MNIT Jaipur, IIITDM Jabalpur on July 1-5, 2019.
- NAAC Awareness Workshop organized by IQAC, UOR in association with NAAC on 16<sup>th</sup> July, 2019 at Centre of Converging Technologies, University of Rajasthan, Jaipur.
- One week Faculty Development Program (FDP) on RF & Microwave Components: Design, Challenges & their Solutions organized by EICT Academy, MNIT and IEEE APS on October 14-18, 2019.
- Faculty Development Program (FDP) on RF Design/ VNA & Its Applications conducted by Entuple and Anritsu, June 16-18, 2020.
- National Faculty Development Program (FDP) on 3D EM Simulation using CST Studio Suite organized by Department of ECE, KLEF, Vaddeswaram, Guntur, June 22-26, 2020.
- International Faculty Development Program (FDP) on Research Methodology and Techniques organized by Sandip Institute of Engineering and Management, Nashik, July 4-6, 2020.
- Short Term Course (STC) on Antennas and Microwave Fundamentals, Theory, Modeling, Test and Applications for Space, Air and Ground Systems organized by NIT, Rourkela, September 26-30, 2020.
- One Week International Workshop on "MIMO and Beamforming Antennas for Wireless and Satellite Applications organized by IEEE Delhi Section Antenna and Propagation Society (APS) chapter, April 26-30, 2021.
- Faculty Development Program (FDP) on Antenna: Design, Fabrication and Measurement, August 2-6, 2021.
- Faculty Development Program (FDP) on Devices for Modern Wireless Communication System, September 20-24, 2021.

### **National/International Conferences participated/attended:**

- 3<sup>rd</sup> International Conference on Optical and Wireless Technologies (OWT-2019), March 16-17, 2019.
- National Conference on Advances in Materials Science and Technology (NCAMST-2020), Feb. 29 , 2020-1 March,2020.
- 2020 IEEE International Conference on Computing, Power and Communication Technologies (GUCON) Galgotias University, Greater Noida, UP, India, Oct. 2-4, 2020.
- 4<sup>th</sup> International Conference on Optical and Wireless Technologies 2020 (OWT-2020), Oct. 3-4, 2020.
- 5<sup>th</sup> International Conference on Emerging Electronics (IEEE-ICEE 2020) hosted by IIT-Delhi, India, Nov. 26-28, 2020.
- 2020 IEEE Indian Conference on Antennas and Propagation (INCAP 2020), Dec. 17-20, 2020.
- 2021 IEEE 4th International Conference on Computing, Power and Communication Technologies (GUCON) University of Malaya, Kuala Lumpur, Malaysia, Sept. 24-26, 2021.
- Indian Conference on Antennas and Propagation (INCAP 2021) organized by MNIT, Jaipur, Dec.13-16, 2021.
- 1<sup>st</sup> IEEE International Conference Microwave, Antennas, and Propagation Conference (MAPCON) organized by IEEE MTT/AP Society Bangalore Joint Chapter, Dec. 12-15, 2022.