DR. RAVI KUMAR GANGWAR

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IEEE Senior member (General & Antenna and Propagation Society) (Member Id: 90346036)

Educational Experience:

Degree Awarded	Specialization	Institute/University	Course Duration Details		
			Year of Commencement	Year of Completion	Total Period
Bachelor of Technology (B.Tech)	Electronics and Communication Engineering	Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh. Lucknow,	July, 2002	June, 2006	4 years
Doctor of Philosophy (Ph.D.)	Electronics Engineering	Indian Institute of Technology (BHU), Varanasi	January, 2007	March, 2011	4 years

Professional Experience:

Organization	Designation	Service Period		
		From	To	Total Experience
Indian Institute of Technology (BHU), Varanasi, India	SRF/JRF	April 2007	March 2011	4.0 year
Jaypee University of Engineering and Technology, Guna, India	Assistant Professor	July 2011	May 2012	11 Month
Indian Institute of Technology (Indian School of Mines), Dhanbad, India	Assistant Professor	June 2012	May 2019	7 years
Indian Institute of Technology (Indian School of Mines), Dhanbad, India	Associate Professor	June 2019	June 2024	5-year
Indian Institute of Technology (Indian School of Mines), Dhanbad, India	Professor	July 2024	Till date	2.0 year
			Grand Total of Professional Experience	**19.0 years**

Award Achieved:

- Awarded **International Travel fellowship** for attending the International Conference at Corfu Island, Greece, from the Council of Scientific and Industrial Research (CSIR), India.
- Received **Best Paper Award** for presenting a research paper in Antenna Testing and Measurement Society (ATMS-2013), Kolkata, 11-13 Feb 2013.
- Received **INSA Visiting Scientist Fellowship** for the Year 2020-21.
- Received **Shastri Mobility Programme (SMP)** for the year 2020-21 for a period of 3 weeks to work with Prof. K Rambabu, University of Alberta, Canada. This program is supported by funds from the Ministry of Education (MoE), Government of India.
- Received **IETE- Smt. Ranjana Pal Memorial Award (2020)** for significant achievements in the field of RF Communications, Electromagnetics, Antennas, Microwaves (Circuits, Devices, etc.), and high-frequency electronics during the last 05 (five) years.
- Received **PSSI- Z. H. Sholapurwala Award (2023)** in the field of the Individual Category for outstanding contributions in the areas of RF and Microwave Applications.
- Received **IE(I) Engineers of the Year Award (2024)** in the field of the Individual Category for outstanding contributions in the areas of RF and Microwave Engineering.
- Received **JST-LOTUS Grant** for the year 2025-26 for a period of 04 weeks to work with Prof. Kunio Sakakibara, Nagoya Institute of Technology, Nagoya, Japan. This program is supported by funds from the Japan Science and Technology Agency.
- The following two papers are among the top 10% of most downloaded papers for the period January 2018 to December 2019. These papers are published in ***Microwave and Optical Technology Letter*** and ***International Journal of RF and Microwave Computer-Aided Engineering***:

- ✓ **Dielectric resonator-based wideband circularly polarized MIMO antenna with pattern diversity for WLAN applications**
- ✓ **Design approach for dual element hybrid MIMO antenna arrangement for wideband applications**
- One paper published in ***IET Microwaves, Antennas & Propagation*** has been selected under **Highlights from 2019**, and the journal made this article in the open access domain. The details of paper is as follows:
  Dielectric resonator-based four-element eight-port MIMO antenna with multi-directional pattern diversity, Authors: Gourab Das, Nikesh Kumar Sahu, Anand Sharma, Ravi Kumar Gangwar, Mohammad S. Sharawi

Membership of Professional Bodies:

- Senior Member: IEEE (General & AP Society) (Membership No. **90346641**)
- URSI Senior Member, Union Radio-Scientifique Internationale / International Union of Radio Science.
- Fellow: Institution of Electronics and Telecommunication Engineers India (Membership No**. F-501341**)
- Fellow: Institution of Engineers India (Membership No. **F-1313084**)
- Member: Institution of Engineering and Technology, UK (Membership No. **1100894557**)
- Life Member: Indian Radio Science Society (InRaSS) (Membership No. **LM0332022**)

Current Area of Research:

Conformal Antennas, Multi-input Multi-output (MIMO) Antenna, Dielectric Resonator Antenna and antenna arrays, Microstrip Antenna and antenna arrays, Bio-electromagnetics, Preparation and Characterization of Ceramic Materials for Microwave Application

Details of Research Students:

Postdoctoral student Supervision	Ph.D. Student Supervision	MTech. Student Supervision
Ongoing: 02, Graduated: 0**3**	Ongoing: 10, Graduated: **14**	Ongoing: **03**, Graduated: **29**

Served as a Reviewer [more than 20 journals]

IEEE Transactions on Antennas and Propagation, IEEE Transactions on Microwave Theory and Techniques, IEEE Transactions on Vehicular Technology, IEEE Transactions on Circuits and Systems II: Express Briefs , IEEE Transactions on Electromagnetic Compatibility, IEEE Antenna & Wireless Propagation Letters, IEEE Antennas and Propagation Magazine; IEEE Communication Magazine, IEEE Transaction on Vehicular Technology, IEEE Access, IET Microwaves, Antennas & Propagation, IET Electronics Letters, Microwave and Optical Technology Letters, AEU-International Journal of Electronics and Communications, Scientific Report, International Journal of RF and Microwave Computer-Aided Engineering, Progress in Electromagnetics Research (PIER), Wireless Personnel Communication, International Journal of Electronics, International Journal of Electronics Letters, International Journal of Microwave and Wireless Technology, Journal of Electromagnetic Waves and Applications, Journal of Electronic Materials, IETE Technical Review, etc.

Editorship in journal

Associate Editor, IEEE Access
Associate Editor, IET Circuits, Devices & Systems
Academic Editor, International Journal of Antennas and Propagation
Academic Editor, International Journal of RF and Microwave Computer-Aided Engineering
Associate Editor, Scientific Report
Member Editorial Board of International Journal of Communications, Network and System Sciences (IJCNS)

Details of Academic Identities:

S. No.	ACADEMIC IDENTITY	ID
1.	**ORCID ID**	**0000-0002-6137-1644**
2.	**Scopus Author ID**	**35203333800**
3.	**Researcher ID**	**N-5275-2016**
4.	**Google Scholar ID**	**WuO_Ze0AAAAJ**
5.	**Research gate ID**	**Ravi-Gangwar-3**
6.	**IRINS profile ID**	**97523 (https://iitism.irins.org/profile/97523)**
7.	**Publons ID**	Ravi Kumar Gangwar (https://publons.com/researcher/1201937/ravi-kumar-gangwar/)

External Sponsored R&D Project Completed/ongoing:

Project Title	Role	Funding Agency	Amount of Grant (INR.)	Period	Status
Studies on Multi-element Multi-segment Dielectric Resonator Antenna for Wireless Application	Principal Investigator	DRDO	17.00 Lakh	3 year	Completed
Design and Development of Circular Polarized Dielectric Resonator Antenna for Wireless Application	Principal Investigator	SERB-DST	25.45 Lakh	3 years	Completed
Investigation on Ultra-thin Conformal Metamaterial Absorbers for Multiband Applications	Co-Principal Investigator	SERB-DST	46.56 Lakh	3 years	Completed
A Compact Low-volume Dielectric Resonator Antenna Loaded with Metamaterial Structure for Small Satellite Application	Co-Principal Investigator	ISRO	20.10 Lakh	2 Years	Completed
Design and Analysis of Compact Triple Band Circularly Polarized Dielectric Resonator Antenna for GPS and RNSS Wireless Application	Principal Investigator	DRDO	10.0 Lakh	1 Year	Completed
Design & Development of Broadband Circularly Polarized Conformal Antenna Array for Airborne Applications	Principal Investigator	DRDO	61.06 Lakh	3 Year	Completed
Design and Fabrication of Light-weight Flexible Polarization Independent Broadband RF and Microwave Absorber Based on Active/Passive Anisotropic Metamaterial	Co-Principal Investigator	SERB-DST	70.00 Lakh	3 years	Completed
Design and Development of Compact and Low-profile Multiband Conformal Antenna Systems for In-vehicle Telecommunications Equipments Supporting Cellular/Communication Bands	Principal Investigator	SERB, DST, GoI, India	33.92 Lacs	3 years	Completed
Capacity building for human resource development in Unmanned Aircraft Systems (Drone and related Technology	Principal Investigator	MeitY, New Delhi	150.91 lakh	5 years	Ongoing
Development of ceramic dielectric material potentially viable for microwave devices	Principal Investigator	DST, GoI, India	49.51 lakh	2 years	Ongoing
Critical Analysis, Design, EM Modelling & Optimization of millimeter wave planar antenna	Principal Investigator	DRDO	14.58 lakh	1.5 years	Completed
NeTS Small NSF-DST Modernizing Underground Mining Operations with Millimeter-Wave Imaging and Networking	Co-Principal Investigator	NSF-DST	190.58 lakh	3 years	Ongoing
Development of Indigenous and cutting-edge technologies for critical mineral exploration and smart/sustainable mining under PAIR scheme	Co-Principal Investigator	DST	230.00 lakh	1 years	Ongoing

External Sponsored Project other than R&D (Completed/ongoing):

Project Title	Role	Funding Agency	Amount of Grant (INR.)	Period	Status
Visvesvarara Ph. D Scheme for Electronics and IT Phase-II at IIT-ISM, Dhanbad	Nodal Officer	Meity, New Delhi	12.00 Lacs	5 year	Ongoing
Visvesvarara Ph. D Scheme for Electronics and IT Phase-II at IIT-ISM, Dhanbad	Nodal Officer	MeitY, New Delhi	254.15 Lacs	5 years	Ongoing
Visvesvarara Ph. D Scheme for Electronics and IT Phase-II at IIT-ISM, Dhanbad	Nodal Officer	Meity, New Delhi	181.54 Lacs	5 year	Ongoing
Visvesvarara Ph. D Scheme for Electronics and IT Phase-II at IIT-ISM, Dhanbad	Nodal Officer	MeitY, New Delhi	108.92 Lacs	5 years	Ongoing
Capacity building for human resource development in Unmanned Aircraft System (Drone and related Technology)	Principal Investigator	Meity, New Delhi	150.91 Lacs	5 years	Ongoing
Synergistic Training program Utilizing the Scientific and Technological Infrastructure (STUTI)	Co-Principal Investigator	DST, New Delhi	224.47 Lacs	1 Years	Completed

Departmental/Institutional Activities Performed:

- Served as a member of ***Board of Studies (BOS)*** of the Department of Electronics and Instrumentation Engineering, Faculty of Engineering and Technology, MJP Rohilkhand University, Bareilly, India from July 2018 to July 2021.
- Set up the **Microwave Anechoic Chamber** for measurement of Far-field parameters of the antenna at the Department of Electronics Engineering, Indian Institute of Technology (Indian School of Mines), Dhanbad, India.
- Set up the **Computer Simulation laboratory** at the Department of Electronics Engineering, Indian Institute of Technology (Indian School of Mines), Dhanbad, India
- Set up the **Drone Electronics laboratory** at the Department of Electronics Engineering, Indian Institute of Technology (Indian School of Mines), Dhanbad, India
- Served as a **Coordinator (2015-2019)** of 3 Year M.Tech. Program at IIIF New Delhi Centre of IIT(ISM) Dhanbad.
- Served as a **Member of the Institute Core Course Committee**, Indian Institute of Technology (Indian School of Mines), Dhanbad, India.
- Served as a N**odal person** for the **Common Offer Acceptance Portal (COAP-2018 &19)** for conducting counseling at the national level, including all IITs at the Indian Institute of Technology (Indian School of Mines), Dhanbad, India.
- Served as **liaison officer (2020-23),** Indian Institute of Technology (Indian School of Mines), Dhanbad, India.
- Served as **Hostel warden (2019-20),** Opal Hostel, Indian Institute of Technology (Indian School of Mines), Dhanbad, India.
- Served as **Local Coordinator, GIAN program of MHRD**, Indian Institute of Technology (Indian School of Mines), Dhanbad, India **(2019-2023).**
- Served as an **Associate Dean (R&D-Sponsored Research & Industrial Consultancy),** Indian Institute of Technology (Indian School of Mines), Dhanbad, India **(2019-2023).**
- Serving as **Nodal Office, Visvesvarara Ph. D Scheme for Electronics and IT Phase-II** under Meity-India, Indian Institute of Technology (Indian School of Mines), Dhanbad, India **(Since 2019).**
- Served as a **Head of** the **Department of Electronics Engineering,** Indian Institute of Technology (Indian School of Mines), Dhanbad, India from January 2023 to June 2026.
- Served as a **Chairman of** the **Department Faculty Scrutiny Committee (DFSC),** Department of Electronics Engineering, Indian Institute of Technology (Indian School of Mines), Dhanbad, India from January 2023 to June 2026.
- Serving as an expert member in ***Board of Management (BOM)*** of the Gautam buddha University, Greater Noida, India from October 2025.
- Served as a Director (GoI - Nominated Domain Expert) in the ***Board of Directors of new Special Purpose Vehicle*** (SPV) for the implementation of Amended BharatNet Programme (ABP) in Andhra Pradesh from November 2025 to August 2026.

Conference/Workshop Organized

- Organized a 21 days Refresher program on **Recent Trends of Microwave Devices and Antennas** held at Indian School of Mines, Dhanbad, India, Dec. 26, 2016– Jan 15, 2017 as a Program Coordinator.
- Served as Publication Chair in the "**IEEE International Conference on Microwave and Photonics (ICMAP-2018)**" held at Indian Institute of Technology (Indian School of Mines, Dhanbad), India, February 09-11, 2018.
- Served as a Session Chair in **IEEE Indian Conference on Antennas and Propagation (InCAP-2018)**, held at Hyderabad International conventional Centre, Hyderabad, India, December 16-19, 2018.
- Served as a YP & SIGHT Chair in the organizing committee at the IEEE Indian Conference on Antennas and Propagation (InCAP-2020), held in Kolkata, India, December 17-20, 2020.
- Organized a 07 days training program on **"Hands-on Training on Microwave & Photonics Related Sophisticated Equipment and Components (HTMPRSEC22)"** held at MNNIT Allahabad., India, June 06, 2022– June 12, 2022, as a Program Coordinator.
- Served as a session chair in **IEEE Microwaves, Antennas, and Propagation Conference (MAPCON-2022)**, held at The Leela Bhartiya City, Bangalore, India, December 12-15, 2022.
- Served as a session chair in **IEEE Microwaves, Antennas, and Propagation Conference (MAPCON-2023)**, held at Forum Celebration Centre and Wyndham Hotel at Ahmedabad, India, December 11-14, 2023.
- Organized a Conference on **Institute Industry Interaction (III-2024)** held at the Indian Institute of Technology (Indian School of Mines, Dhanbad), India, on 3rd February 2024**,** as a Co-Convenyor.

- Organized total 43 Bootcamps for the students, faculty members, armed forces, police and paramilitary forces on **Electronics for Unmanned Aerial Systems, Sensors, and Communication** held at the Indian Institute of Technology (Indian School of Mines, Dhanbad), India, as well as other in organizations, as a Coordinator under a project funded by MeitY.
- Organized a five-day Workshop on **Phased Array Antenna Systems: A Revolutionary Technology for Modern Communication and Defence Application** from 15th-19th February 2025 at the Department of Electronics Engineering, Indian Institute of Technology (Indian School of Mines) Dhanbad-826004, Jharkhand, India as a Workshop Coordinator.
- Served as a session chair in **International Conference on Microwave , Antenna and Communication 2025 (MAC-2025)**, held at MNIT Bhopal, India, June 27-29, 2025.
- Served as a session chair in **Digital Intelligence for Green Mining and Industrial Networks" (DIGMIN-2025)**, held at IIT(ISM) Dhanbad, India, September 12-13, 2025.
- Served as a session chair in **IEEE Microwaves, Antennas, and Propagation Conference (MAPCON-2025)**, held at Lulu Convention Center and Grand Hyatt Hotel at Kochi, India, December 14-18, 2025.
- Served as a General chair in **2nd IEEE International Conference on Electrical, Electronics, Communication and Computers" ELEXCOM'25** held at IIT(ISM) Dhanbad from December 20-22, 2025.
- Organized a **20th Symposium on National Frontiers of Engineering (NatFoE 2026)** from 8th-10th August 2026 at the Department of Electronics Engineering, Indian Institute of Technology (Indian School of Mines) Dhanbad-826004, Jharkhand, India as a as a Co-Convener.

Recent Invited Talks Delivered (more than 50 talks)

- Delivered an invited lecture for the peoples of Industry as well as academic on "***Dielectric Resonator Antenna: A potential radiator for Multi-Input Multi-output (MIMO) Antennas system***" in a Technical webinar sponsored by IEEE APS and CRFID Chapter, Delhi Section, India on Modern Antenna Designs for 5G and related applications at University of Delhi South Campus, Delhi, India in September 14-18, 2020.
- Delivered an invited lecture for the peoples of Industry as well as academic on "***Dielectric Resonator Antenna: Potential radiator for Multiband, Wideband, and MIMO Applications***" organized by IEEE AP-S Student Branch Chapter, IIT Kanpur along with IEEE AP-S Chapter Uttar Pradesh Section on November 05, 2020.
- Delivered an invited lecture for the peoples of Industry as well as academic on "***Dielectric Resonator Antenna: Potential radiator for Multi-Input Multi-output (MIMO) Antenna System***" in 5 days AICTE Training and Learning (ATAL) Academy sponsored Online FDP on Design and Characterization of Microwave Components and Antennas (DCMCA-2020) at Department of Electronics & Communication Engineering, Thapar Institute of Engineering and Technology, Patiala on November 17, 2020.
- Delivered an invited lecture for the peoples of Industry as well as academic on "***Dielectric Resonator Antenna: Potential radiator for Multi-Input Multi-output (MIMO) Antenna System***" in Indo-Canada SPARC-Course on "Dielectric Resonator and Its Applications, DRA-2020" during 20-24 November 2020 Department of Electronics & Communication Engineering, at National Institute of Technology Silchar on November 22, 2020.
- Delivered an invited lecture for the peoples of Industry as well as academic on "***Understanding of Multiband generation in Dielectric Resonator Antennas***" in Indo-Canada SPARC-Course on "Dielectric Resonator and Its Applications, DRA-2020" during 20-24 November 2020 Department of Electronics & Communication Engineering, at National Institute of Technology Silchar on November 23, 2020.
- Delivered an invited lecture for the people of Industry as well as academics on "***Understanding of Isolation Improvement in MIMO Antennas***" in EICT Sponsored Online Joint Faculty Development Program entitled "Advanced Communication and Antennas" at IIT Guwahati, during 15-28 February 2021.
- Delivered an invited lecture in AICTE ATAL FDP on "Modern Antenna Technologies for Futuristic Wireless Communication Systems on "***Dielectric Resonator Antenna: A Potential Radiator for Multiband/Wideband Antenna System***" at Guru Jambheshwar University of Science and Technology, Hisar (Haryana) during 20th August to 24th August, 2021.
- Delivered an invited lecture in Hands on Training on Microwave & Photonics Related Sophisticated Equipments and Components (HTMPRSEC22) on "***Dielectric Resonator Antenna: Potential radiator for MIMO Antenna System Applications***" at MNNIT Allahabad., India, June 06, 2022– June 12, 2022.
- Delivered an invited lecture in the SERB Karyashala on Design and Fabrication of Hybrid/Flexible Antennas for 6G and beyond Applications on "***Dielectric Resonator Antenna: Potential radiator for Multi-Input Multi-output (MIMO) Antenna System***" organized by ABVIIITM, Gwalior on 12th Sept to 18th Sept 2022.

- Delivered an invited lecture in one week FDP on Advancements in Antenna Design Techniques on "***Understanding of Isolation Improvement in MIMO Antennas***" at SSN College of Engineering, India, 5th Dec. 2022 - 10th Dec. 2022.
- Delivered an invited lecture for the peoples of Industry as well as academics on "***Dielectric Resonator Antenna: Potential radiator for Multiband, Wideband, and MIMO Applications***" organized by IEEE AP-S Student Branch Chapter, IIT Palakkad on February 11, 2023.
- Delivered a keynote address in the second International Conference on Artificial Intelligence Computational Electronics and Communication Systems on "***Dielectric Resonator Antenna: Potential radiator for MIMO Antenna System Applications***" organized by Dept. of E&C, MIT, Manipal, February 17, 2023.
- Delivered an invited lecture in the faculty development program on Recent Advancement and Challenges in Microwave and Photonics on "***Understanding of multiband and wideband characteristics in dielectric resonator antennas***" organized by VIT Vellore, on April 18, 2023.
- Delivered an invited lecture in the SERB Karyashala on Futuristic Trends in Microwave and Millimeter Wave Technologies: An ML Approach on "***Dielectric Resonator Antenna: Potential radiator for Multi-Input Multi-output (MIMO) Antenna System***" organized by NIT Silcher, on June 02, 2023.
- Delivered an invited lecture in the SERB Karyashala on Recent Trends in Dielectric Resonator Antennas on "***Dielectric Resonator Antenna: Potential radiator for Multi-Input Multi-output (MIMO) Antenna System***" organized by ABVIIITM, Gwalior on July 21, 2023.
- Delivered an invited lecture for the people of Industry and academics on "***Understanding of Isolation Improvement in MIMO Antennas,***" organized by the Antenna Test and Measurement Society on October 22, 2023.
- Delivered an invited lecture for the people of Industry and academics on "***Dielectric Resonator Antenna: A Potential Radiator for 5G/6G MIMO Antenna Technology,***" organized by the in Plasma Science Society of India's (PSSI) Annual Conference PLASMA-2023, at UPES, Dehradun.
- Delivered an invited lecture for the people of Industry and academics on "***Understanding of Isolation Improvement in MIMO Antennas"*** in a 3-day Invited lecture series on "Advancements in Antenna Development: Current Trends and Challenges" organized by the organized by the University of Delhi South Campus, Delhi on 7th February 2024.
- Delivered an invited lecture in the SERB Karyashala on Design and Fabrication of Modern Antennas for 5G/6G Wireless Communication on "***Dielectric Resonator Antenna: Potential radiator for Multi-Input Multi-output (MIMO) Antenna System***" organized by PEC Chandigarh on 4th March 2024.
- Delivered an invited lecture in the SERB Karyashala on Recent Trends in Antenna Design and Technology for Next Generation Communication Ecosystem on "***Dielectric Resonator Antenna: Potential radiator for Multi-Input Multi-output (MIMO) Antenna System***" organized by ABVIIITM, Gwalior on March 08, 2024.
- Delivered two invited lectures in the SERB Karyashala on Opportunistic Control of Advances in Antenna Design on "***Dielectric Resonator Antenna: Potential radiator for Multi-Input Multi-output (MIMO) Antenna System***" organized by NIT Tiruchirappalli on March 11, 2024.
- Delivered an invited lecture in the SERB Karyashala on Machine Learning Approach for Design and Synthesis of Antenna Pattern for Intelligent Beamforming in 5G Communication on "***Dielectric Resonator Antenna: Potential radiator for Multi-Input Multi-output (MIMO) Antenna System***" organized by NIT Warangal on March 08, 2024.
- Delivered an invited lecture in the SERB Karyashala on the Machine Learning Approach for design and Synthesis of Antenna Patterns for Intelligent Beamforming in 5G Communication on "***Understanding of multiband and wideband characteristics in dielectric resonator antennas***" organized by NIT Warangal on March 13, 2024.
- Delivered an invited lecture for the people of Industry and academics on "***Dielectric Resonator Antenna: A Potential Radiator for 5G/6G MIMO Antenna Technology,***" at IEEE STB 15118, Nagarjuna College of Engineering and Technology, Bangalore, Under IEEE Bangalore Section.
- Delivered a keynote talk for the people of Industry and academics on "***Dielectric Resonator Antenna: A Potential Radiator for 5G/6G MIMO Antenna Technology,***" Technically Sponsored by IEEE UP Section, Second International Conference on Microwave, Antenna, and Communication (MAC 2024), at Dehradun.
- Delivered a keynote talk for the people of Industry and academics on "***Design and Development of Circularly Polarized Dielectric Resonator based MIMO Antenna System for Modern Communication Applications,***" 7th International Conference on VLSI, Communication and Signal Processing, October 25-27, 2024, MNNIT Allahabad, Prayagraj.
- Delivered a keynote talk for the people of Industry and academics on "***Dual-polarized Dielectric Resonator based MIMO Antenna System for Modern Communication Applications,***" in RF to THz Technologies for Next-Generation Communication and Sensing, 06th - 10th January 2025, NIT Rourkela, Orissa.

- Delivered an invited talk for the people of Industry and academics on "***Dielectric Resonator Antenna: A Potential Radiator for 5G/6G MIMO Antenna Technology,***" Atal Faculty Development Program (FDP) on mmWave Technology, January 13-18, 2025 at Vivekanand Education Society's Institute of Technology, Mumbai.
- Delivered an Invited Talk for the people of Industry and academics on "***Dielectric Resonator Antenna: A Potential Radiator for 5G/6G MIMO Antenna Technology***" at the Faculty Development Program on "Advances in Millimeter Wave and Terahertz Technologies for 6G and Future Wireless Networks" organized by Electronics and ICT Academy, National Institute of Technology Patna, INDIA om 12th February 2025.
- Delivered a keynote talk for the people of Industry and academics on "***Dielectric Resonator Antenna: A Potential Radiator for Spectrum utilization and mobility driven applications,***" Technically Sponsored by IEEE MP Section, Third International Conference on Microwave, Antenna, and Communication (MAC 2025), at MANIT Bhopal, June 27-29, 2025.
- Delivered a invited talk for the people of Industry and academics on "***Dielectric Resonator Antenna: A Potential Radiator for Modern communication applications,***" at the Faculty Development Program on " Antenna Design for Next-Generation Wireless Communications" organized by Electronics & ICT Academy, IIT Roorkee, in association with PEC Chandigarh on July 12, 2025.
- Delivered a invited talk for the people of Industry and academics on "***Substrate Integrated Waveguide based Antenna: A Potential Radiator for IoT applications,***" at the Faculty Development Program on " Antenna Design for Next-Generation Wireless Communications" organized by Electronics & ICT Academy, IIT Roorkee, in association with ABVIIITM, Gwalior on July 10, 2025.
- Delivered a invited talk for the people of Industry and academics on "***Dielectric Resonator Antenna: A Potential Radiator for Modern communication applications,***" at the Faculty Development Program on " Recent Trends in Antenna Design for 5G & 6G Applications " Malaviya National Institute of Technology, Jaipur, from 28th July – 05th August 2025.
- Delivered a invited talk for the people of Industry and academics on "***Substrate Integrated Waveguide based Antenna: A Potential Radiator for IoT applications,***" at the Faculty Development Program on "Innovative Antenna Design for Next-Generation Wireless Systems: From Concept to Application" Motilal Nehru National Institute of Technology, Allahabad, from 04th August – 10th August 2025.
- Delivered a invited talk for the people of Industry and academics on "***Dielectric Resonator Antenna: A Potential Radiator for Modern communication applications,***" at the Faculty Development Program on "Innovative Antenna Design for Next-Generation Wireless Systems: From Concept to Application" Motilal Nehru National Institute of Technology, Allahabad, from 04th August – 10th August 2025.
- Delivered a invited talk for the people of Industry and academics on "***Design and development of SIW based self-diplexing antennas for IoT applications,***" at the Short Term Training Program on " Trends in RF Devices, Antennas and RADAR System – 2025" held from 15-19, December 2025 Organized by Department of Electronics and Communication Engineering, Maulana Azad National Institute of Technology Bhopal..
- Delivered a keynote talk for the people of Industry and academics on "***Design and Development of SIW-Based Self-Diplexing Antennas for IoT-Enabled Smart Infrastructure through Wireless Connectivity,***" at the international conference on "Green Technologies and Sustainable Solutions (GTSS -2026)" on 20th February 2026 conducted by Madan Mohan Malaviya University of Technology, Gorakhpur.
- Delivered a keynote talk for the people of Industry and academics on "***Dielectric Resonator Antenna: A Potential Radiator for 5G/6G MIMO Antenna Technology,***" at Online Refresher Course on ADVANCE OPTICAL COMMUNICATION FOR 6G AND BEYOND under Malaviya Mission Teacher Training program from June 15 to June 26, 2026 at IIT(ISM) Dhanbad.
- Delivered a invited talk for the people of Industry and academics on "***Substrate Integrated Waveguide based Antenna: A Potential Radiator for IoT applications,***" at the Faculty Development Program on " Fundamentals to Frontiers: Theory and Hands-On Design of Advanced Antenna Systems and RF Circuits" on 1st August 2026 jointly Organized by ABVIIITM Gwalior and E&ICT Academy-IIITDM Jabalpur.

Research Papers Published in International Journals and Conferences: 252 articles

1.	**International Journal**	**151**	**Source**	**Total no. of citations**
2.	**International Journal (SCI/SCI-E)**	**140**	**Google Scholar**	**3570**
3.	**International Journal (Scopus)**	**10**	**SCOPUS database**	**2655**
4.	**Other Journals**	**01**	**Research gate**	**2862**
5.	**International IEEE Conferences**	**63**	**Web of Science**	**2097**
6.	**International Conferences (including IEEE)**	**97**	**Index based on Google scholar (https://scholar.google.com/citations?user=WuO_Ze0AAAAJ&hl=en)**	

7.	**National Conferences**	**17**	**I-10 index**	**89**
	Total (Journals + Conference)	**266**	**H-Index**	**33**

List of some recently published International SCI Journals publications: (Complete List Attached as an Annexure-1)

[1] Nibash Kumar Sahu, and **Ravi Kumar Gangwar**, "Zeroth-Order Mode and Anisotropic Behaviour-Based Via-Free Metasurface-Inspired Miniaturized Dual-Band Dual-Polarized Wearable Antenna With High Data Rate and Wider Coverage," **IEEE Transactions on Microwave Theory and Techniques**, July 2026,

[2] Sanghmitra, **Ravi Kumar Gangwar**, and R K Chaudhary, "A Low-Profile PCB-Compatible Circularly Polarized MIMO Substrate Integrated Octagonal Dielectric Resonator Antenna for mm-Wave IoT-Based Smart Environments," **IEEE Internet of Things Journal**, June 2026.

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