

1	Name of Faculty	Dr. Vivek Singh Kushwah
2	Designation	Professor
3	Nature of Job/Appointment	Regular
4	Date of Joining	04-12-2023
5	E-mail	viveksinghk_ece@cbit.ac.in



6	Education Qualifications	Name of the Degree	Class
	Ph. D	Doctor of Philosophy (ECE) Rajiv Gandhi Technical University	Awarded
	PG	M. Tech.(Microwave Engineering) Rajiv Gandhi Technical University	First Class
	UG	B.E. (ECE) Rajiv Gandhi Technical University	First Class

7 Work Experience

Teaching	16 Years
Research	06 Years
Industry	--
Others	--

8 Area of Specialization

Microwave Engineering, Microstrip Antennas and Microstrip Filters

9 Professional Memberships

1. Membership of IEEE, USA since 2011 (Senior Member), Membership No. M- 91155939
2. Fellow & Treasurer of IETE, Membership No.: F-203191

10 Responsibilities held at Institution Level

1. Member of academic council at P.K. University Shivpuri nominated by MP State Private University Regulatory Commission, Govt. of MP Bhopal, India (22-11-2019 to Till Date)
2. Member, Examination Discipline Committee, Amity University Madhya Pradesh (08-01-2014 to 01-12-2023)
3. Member BoS-ECE Dept. (03-01-2018 to 01-12-2023)
4. Head, Dept. of ECE (16-06-2011 to 22-09-2013)
5. Research Coordinator of Amity School of Engineering and Technology, Amity University, M.P. (16-06-2011 to 01-12-2023)
6. Unnat Bharat Abhiyan (UBA) Coordinator, Amity University Madhya Pradesh, India (01-09-2020 to 01-12-2023)
7. NIRF Coordinator, Amity School of Engineering and Technology, Amity University, M.P (07-06-2019 to 01-12-2023)
8. NAAC Coordinator, Amity School of Engineering and Technology, Amity University, M.P. , India (11-11-2020 to 01-12-2023)
9. IQAC Coordinator, Amity School of Engineering and Technology, Amity University, M.P., India (01-07-2016 to 01-12-2023)
10. Principal Editor of University E-Newsletter Amitech. Vol. IV, Issue II ,2022.

11 Responsibilities held at Department Level

1. Member, Board of Studies (ECE)
2. Lab Coordinator (ECE)
3. CDC Coordinator (ECE)
4. Member of Student's Research Committee (SRC)
5. Patents and Sponsored Projects Coordinator(ECE)
6. Class Coordinator(ECE)
7. Research Coordinator
8. Member of Vidyanjali, MHRD, Govt of India Initiative

		9. Member of National Digital Library (NDL)
12	Research Guidance	1. Four (4) Scholars are awarded with PhD. 2. Four (4) Scholars are pursuing with PhD.
13	Awards Received	1. Received "International Researcher Award 2020-21" from I2OR Academy India (January 2021). 2. Received "Dainik Bhaskar Teachers Excellence Awards 2022" 3. Received Appreciation Letter for excellent work under Unnat Bharat Abhiyan initiative of MHRD Govt of India by MANIT Bhopal on 24/03/2022. 4. Awarded First position in essay writing in 1996 at district level competition. 5. Awarded Second position in Computer Science Quiz organized by S. E. C. T, Bhopal in 1995 at State level competition.
14	Courses Handled at Under Graduate / Post Graduate Level.	Microwave Engineering, Antennas, Digital System Design, Network Analysis And Synthesis, Data Communication, Computer Networks, Communication Systems, Analog Electronics
15	No. of Papers Published	National Journals – 05 International Journals – 56 National Conference – 03 International Conference –21
16	Projects Carried out	Project Title: Utilization of rainwater for domestic use Funding Agency: Unnat Bharat Abhiyan, MHRD Govt. of India Total Grant/Funding received (Rs.): 85,000/- Duration: 12 Months Date of Sanction:18/05/2022 Date of Completion: 03/05/2023
17	Patents	1. Patent filed on 26 March 2019 and published on 02 October 2020 on the topic "4-port Meandered shared radiator for extremely high frequency applications" Patent Application No.: 201911011649. 2. Patent filed on 31 December 2020 and published on 04 November 2022 on the topic "An active base isolation control system of building frame using shape memory alloy", Patent Application No.: 202011057476. 3. Patent filed on 25 June 2022 and published on 22 July 2022 on the topic "Design and implementation of a smart solar panel with auto rectification and self-phased management features" Patent Application No.: 202221036570. 4. Patent filed on 12 August 2022 and published on 09 September 2022 on the topic "A System for Diagnosis and Classification of Bone Cancer using Artificial Intelligence" Patent Application No.: 202221046050. 5. Patent filed on 18 October 2022 and published on 04 November 2022 on the topic "Systematic Approach Integrated With Convolutional Neural Network For Predicting the Air Pollution and Air Pollutants in Industrial Area" Patent Application No.: 202211059592 A. 6. Patent filed on 15 November 2022 and published on 2 December 2022 on the topic "Artificial Intelligence Based Approach to Early Prediction of Natural Coma Based on Brain Mapping" Patent Application No.: 202241065536. 7. Patent filed on 15 November 2022 and published on 25 November 2022 on the topic "Smart IoT Based System Integrated with Artificial Intelligence Framework for Prediction of Air and Water Pollution" Patent Application No.: 202241065330. 8. Patent filed on 23 November 2022 and published on 9 December 2022 on the topic "Implementation of Framework to Study the Battery Backup and Various Advantages of Bidirectional Electric Vehicle Charging Points" Patent Application No.: 202211067243. 9. Patent filed on 17 December 2022 and published on 6 January 2023 on the topic "Implementation of Novel Techniques to Measure the Efficiency Photovoltaics of

- Nanostructured Solar Cells” Patent Application No 202241073253.
10. Patent filed on 18 December 2022 and published on 6 January 2023 on the topic “Novel approach to identify the security issues in internet of things (IoT) and cloud computing service model with suggested solution” Patent Application No 202241073382.
 11. Patent filed on 19 December 2022 and published on 06 January 2023 on the topic “Deep Reinforcement Learning based on Path planning and Tracking control of Automatic Parking Cloud Model” Patent Application No 202211073449.
 12. Patent filed on 19 December 2022 and published on 6 January 2023 on the topic “Implementation of Machine Learning Techniques for Attack and Anomaly Detection in Internet of Things (IoT) Sensors and Sites” Patent Application No 202241073450.
 13. Patent filed on 23 December 2022 and published on 27 January 2023 on the topic “Deep learning-based technique for Automatic Traffic Anomaly Detection on the Road Network” Patent Application No 202241075373.
 14. Patent filed on 9 January 2023 and published on 27 January 2023 on the topic “Design of Framework for an Efficient Radio Frequency Spectrum Utilization Technique for Cognitive Radio Networks” Patent Application No 202341001687.
 15. Patent filed on 12 May 2023 and published on 19 May 2023 on the topic “Systematic Techniques to Study the Impact of Novel Approaches in Brain Tumor Therapy” Patent Application No 202331033540.
 16. Patent filed on 31 December 2022 on the topic “A notched bandpass filter using feeding line between parallel coupled line and coplanar waveguide” Patent Application No 202211077548.
 17. Patent filed on 12 January 2023 on the topic “A method for developing of parallel coupled microstrip line bandpass filter using coplanar waveguide” Patent Application No 202311002630.
 18. UK International Patent filed dated 14 May, 2023 on the topic “Animal Tracking Strap using RFID and IOT” Patent Application No 6282294, Patent Publication/Grant Date: 22/05/2023.
 19. UK International Patent filed dated 14 May, 2023 on the topic “IOT based agriculture ROBOT for pesticides spraying” Patent Application No : 6282292, Patent Publication/Grant Date: 31/05/2023.
 20. Patent filed on 10 May 2023 and published on 18 August 2023 on the topic “Systematic Approach to Study the factors that have an Impact on Cyber Defense Using Artificial Intelligence Techniques” Patent Application No. 202341032941.
 21. UK International Patent filed dated 05 July, 2023 on the topic “Microstrip Patch Antenna for 5G Terahertz Communication” Patent Application No : 6294397, Patent Publication/Grant Date: 12/07/2023.
 22. UK International Patent filed dated 14 May 2023 on the topic “Agriculture farm analyzing system with Internet of Things” Patent Application No : 6282293, Patent Publication date: 22/09/2023, Grant Date: 21/09/2023.

1. Technical Program Committee Member and reviewer of 15 IEEE International Conferences
2. Technical Program Committee Member of International Journal of Communication Systems and Network, ISSN 2234-8018.
3. Publication Committee Chair/ Technical Program Committee Member of 2023 IEEE 15th International Conference on Computational Intelligence and Communication Networks (CICN), **Bangkok, Thailand.**
4. Publication Committee Chair of 9th International Conference on Computational Intelligence and Communication Networks in Girm of **Cyprus.**

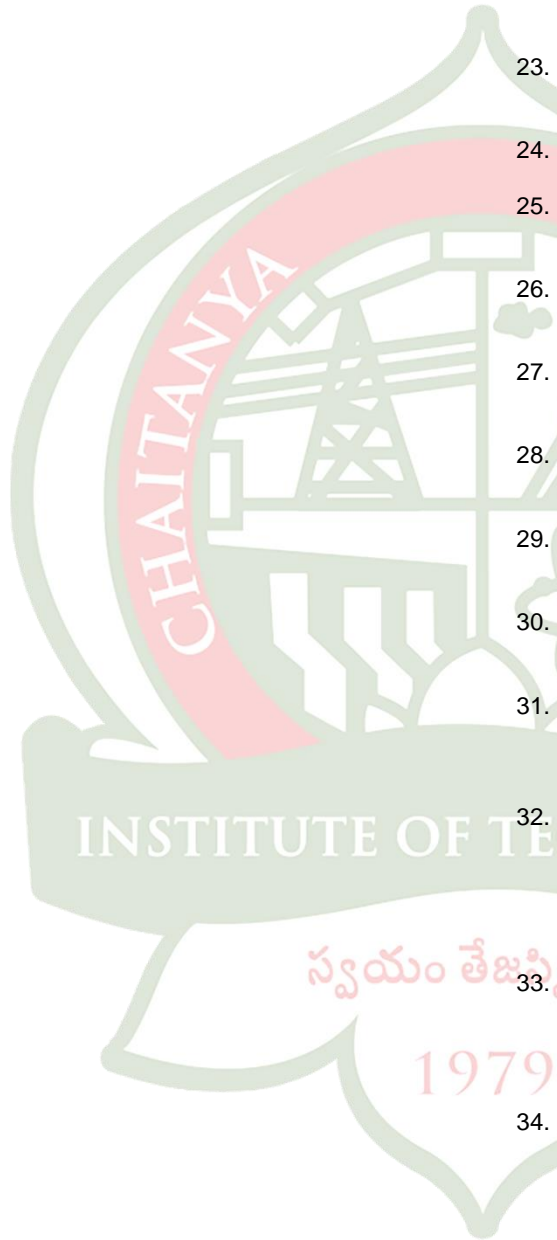
5. Finance chair of 7th International Conference on Communication Systems and Network Technologies, **IIIT Nagpur**
6. Technical Program Committee Member of 14th International Conference on Computational Intelligence and Communication Networks (CICN-2022), Al-Khobar, **Saudi Arabia**.
7. Session Chair for 03 IEEE International Conferences.
8. Served as the Reviewer for 11 **SCI/WoS/SCOPUS** Journals like "IET Microwaves, Antennas & Propagation, ISSN: 1350-2417", "PIER/Progress in Electromagnetic Research, ISSN: 1559-8985", International Journal of Electronics, Taylor & Francis, ISSN:1362-3060, Advanced Control for Applications, Wiley Publication, ISSN: 2578-0727, International Journal of RF and Microwave Computer-Aided Engineering, ISSN: 1096-4290, The IET Image Processing journal, ISSN: 1751-9667,"F1000 Research" United Kingdom ,ISSN: 2046-1402, Applied Sciences; ISSN: 2076-3417, International Journal on Interactive Design and Manufacturing (IJIDEM): ISSN: 1955-2513, Springer Nature Publisher, International Journal of Communication Systems, WILEY Publisher, ISSN 1099-1131.
- 19 Invited Speaker Delivered Invited Lecture on "Design & analysis of microstrip patch antenna and filters using neural network for mobile communication in National Webinar on microstrip antenna and freeware EDA tools organized by Institute of Engineering, Jiwaji University (Govt.), Gwalior on 15/02/2021.
1. Micro Electronic Materials: ISBN-978-93-95331-72-2, pp. 1-305, Dec.2022, R.K Publication (**Text Book**)
2. Wireless Communication: ISBN-978-93-95331-71-5, pp. 1-307, Dec. 2022, R.K Publication (**Text Book**)
3. Book title: Trends in Research on Microstrip Antennas, 2017
Chapter title: Design and Analysis of Microstrip Patch Antenna using Artificial Neural Network, pp. 55-75, ISBN 978-953-51-5343-6 indexed in Book Citation Index/Thomson Reuters/Web of Science, Publishers: **Intech International** open science Publishers, **Croatia**.
4. Book title: Internet of Things Enabled Antennas for Biomedical Devices and Systems: Impact, Challenges and Applications, 2023
Chapter title: Study of SAR in Tumor for Biomedical Applications Based on Microstrip Patch Antenna, pp. 237-247, ISBN: 978-981-99-0212-5 indexed in **Book Citation Index/Thomson Reuters/Web of Science**. Publishers: **Springer** Tracts in Electrical and Electronics Engineering, **Springer Nature Singapore**, 2023.
- 20 No. of Books/Chapter Published with details 5. Book title: Advanced Wireless Communication and Sensor Networks, Applications and Simulations, 2023
Chapter title: Introduction to Wireless Communication and Its Applications, pp. 1-10, ISBN: 978-981-99-0212-5 indexed in **Book Citation Index/SCI/SCOPUS/Web of Science**. Publishers: Chapman and Hall/CRC- Press, **Taylor & Francis Group, England**, 12 July 2023.
6. Shally Goyal, **Vivek Singh Kushwah**, "Study of UWB wireless communication for recent medical applications" Pharmacovigilance for Healthcare Professionals: Scope and Opportunities, pp.144-147,2020, ISBN No: 978-93-5396-598-3, Amity Institute of Pharmacy, Amity University Madhya Pradesh Gwalior-474005, January 2020.
7. Narendra Kumar Garg, **Vivek Singh Kushwah**, Ajay Kumar Dadoria, "A novel approach for high speed and low power by using Nano-VLSI interconnects" Advanced MOS Devices and their Circuit Applications, ISBN No: 9781032670270, 1st Edition, CRC- Press, **Taylor & Francis Group**, pp.146-160,2024.

Details of Short-Term Training Programs/Faculty-Development Programs/Seminars/Workshops/Other Trainings (**Attended and/or Organized**).

1. Organized National Seminar on Mobile Ad-hoc Networks Technologies at Amity University Madhya Pradesh on 26 April, 2013.
2. Organized National Seminar on Data Mining and Information Security at Amity University Madhya Pradesh on 05 October, 2012.
3. Coordinated two days' workshop on Robotics conducted by Robospecies Technologies Pvt. Ltd. at Amity University, Gwalior (M.P.) from 13th April to 14th April 2013.
4. Convener of "National Conference on Advances in Intelligent Computing and Communication Technologies" organized by Amity University Campus, Madhya Pradesh during 11 October 2019.
5. Convener of "International Conference on Innovations in Smart Technology, Advanced Materials and Communication Engineering (ISTAMCE-2021)" organized by Amity University Campus, Madhya Pradesh on 9th June 2021.
6. Organized International Webinar on "Emerging Practices in Communication and Computer Technologies at Amity University Madhya Pradesh on 12 September 2022.
7. Organized Industrial Expert talk on Vigilance (BSNL) at Amity University Madhya Pradesh on 01 November 2022.
8. Organized Guest Lecture on "Ideas to Execution" at Amity University Madhya Pradesh on 21 November 2022.
9. Organized IIC Activity "Session on Achieving Problem-Solution Fit & Product-Market Fit" at Amity University Madhya Pradesh on 15 February 2023.
10. Vivek Singh Kushwah, "Radio Frequency Based Traffic Alert System for Automobiles," National Seminar on Emerging trends in manufacturing & automation engineering (NSMAE-2016) organized by Amity University Campus, Madhya Pradesh during September 29-30,2016.
11. Vivek Singh Kushwah, "Design & Analysis of Microstrip Patch Antenna using Artificial Neural Network," National Seminar on Scientific and technical terminology in science and technology organized by MHRD, Commission on Scientific and technical terminology, during November 29-30,2017
12. Vivek Singh Kushwah, "Smart home system in smart city," National Conference on Emerging and advances in civil engineering organized by Amity University Campus, Madhya Pradesh during August 31,2017.
13. Vivek Singh Kushwah, "Application of Radio Frequency in Autonomous Speed Control of Vehicles," National Seminar on Emerging trends in manufacturing & automation engineering (NSMAE-2016) organized by Amity University Campus, Madhya Pradesh during September 29-30,2016.
14. Vivek Singh Kushwah, "Application of Radio Frequency Based System in Automobile Communication," National Seminar on Emerging trends in manufacturing & automation engineering (NSMAE-2015) organized by Amity University Campus, Madhya Pradesh during October 9-10,2015.
15. Vivek Singh Kushwah, "Different Design Techniques of Microstrip Low Pass Filter for RF Application," National Seminar on Communication, Network and Cyber Security (NSCNCS 2016) organized by Amity University Campus, Madhya Pradesh during 13-14 April 2016.
16. Vivek Singh Kushwah, "Design of Defected Microstrip Patch Antennas for Wireless Application," National Seminar on Communication, Network and Cyber Security (NSCNCS 2016) organized by Amity University Campus, Madhya Pradesh during 13-14 April 2016.
17. Vivek Singh Kushwah, "Stepped patch antenna for GSM applications", International Conference on Innovations in Smart Technology, Advanced Materials and Communication Engineering (ISTAMCE-2021) organized by Amity University Campus, Madhya Pradesh on 9th June 2021.
18. Vivek Singh Kushwah, "Design of First Order Parallel Coupled Microstrip Band Pass Filter for MCA, National Conference on Advances in Intelligent Computing and Communication Technologies organized by Amity

University Campus, Madhya Pradesh during 11 October 2019.

19. Vivek Singh Kushwah, "ANN Modeling of Microstrip Patch Antenna for WLAN Application," National Seminar on Advances in computer networks, communication and security (NSACCS-2015) organized by Amity University Campus, Madhya Pradesh during February 26-27, 2015.
20. Vivek Kushwah & Amritanshu Pandey "MCDS based routing algorithms on MANETS," IETE National Seminar on ITES 2006 organized by Computer Society Of India held at MPCT, Gwalior during January 21-22, 2007.
21. Attended workshop on Introduction to design of algorithms organized by I.I.T. Kharagpur under the national mission on education through ICT (MHRD) 27th April - 30th May 2015.
22. Attended workshop on Computer Networking organized by I.I.T. Bombay under the national mission on education through ICT (MHRD) from 28th May to 5th July 2014.
23. Attended workshop on simulation, fabrication and characterization of RF/Microwave components held at I.I.T. New Delhi, 30-31 October 2009.
24. Attended workshop on RFIC & Related Technology held at I.I.T. New Delhi, 10 November 2009.
25. Attended Faculty Enablement Program held at Amity University Campus, Noida from 21st to 25th July, 2010 conducted by Infosys Technologies Limited.
26. Attended Faculty Development Program on Scientific Writing held at Amity University Campus, Gurgaon on 24th May, 2013 conducted by Amity Institute of Biotechnology.
27. Attended Faculty Development Program on Innovative Pedagogical Practices held at Amity University Campus, Madhya Pradesh from 16th-20th June, 2014.
28. Attended Faculty Development Program on Academic Excellence in Universities held at Amity University Campus, Madhya Pradesh from 17th-23th June, 2015.
29. Attended Faculty Development Program on Research and Innovation in Indian Universities held at Amity University Campus, Madhya Pradesh from 15th-21th June, 2016.
30. Attended Faculty Development Program on Quality Higher Education in Indian Universities held at Amity University Campus, Madhya Pradesh from 14th-20th June, 2017.
31. Attended Faculty Development Program on Research Methodology and pedagogy in universities held at Amity University Campus, Madhya Pradesh from 06th-12th June, 2018.
32. Attended One-week Faculty Development Program on "VLSI Chip Design Hands-on using Open-Source EDA" Jointly organized by: Electronics & ICT Academies at-IIT Guwahati, IIITDM Jabalpur, MNIT Jaipur & NIT Patna under the scheme of Meity, Government of India from 16-20 December 2019
33. Attended AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "Internet of Things & its applications" from 2021-05-26 to 2021-05-30 at Amity School of Engineering & Technology, Amity University, Gwalior.
34. Attended Short Term Training Program under TEQIP Phase-II on Advanced Techniques in Signal Processing and Communication organized by the department of Electronics engineering, Madhav Institute of Technology & Science, Gwalior, Madhya Pradesh from 01-05 March, 2016.
35. Attended Short Term Training Program under TEQIP Phase-II on Data Communication & Networking organized by the department of Electronics engineering, Madhav Institute of Technology & Science, Gwalior, Madhya Pradesh from 04-08 March, 2017.
36. Attended One day seminar cum workshop on Innovation & intellectual property rights (IPR) sponsored by NRDC held at Amity University Campus, Madhya Pradesh on 28th Jan, 2017.
37. Attended One day seminar cum workshop on Innovation & intellectual property rights (IPR) sponsored by NRDC held at Amity University Campus, Madhya Pradesh on 14th Feb, 2015.



38. Attended workshop on RF/MW Fundamentals, DC Measurements and FPGA Debugging conducted at ABV-I.I.I.T.M. Gwalior (M.P.), 12 January 2012.
39. Attended workshop on Recent Advances in Microwave Antennas conducted by Madhav Institute of Technology & Science, Gwalior (M.P.), 31st August to 1 September 2012.
40. Attended workshop on Optical Fiber Communication and its Applications under TEQIP Phase-III organized by the department of Electronics engineering, Madhav Institute of Technology & Science, Gwalior, Madhya Pradesh on 07th September, 2019.
41. Actively participated in "Inter Amity Institutions Sports Meet" for organizing the SANGATHAN 2010 in celebration of Founder's Day at Amity University, Noida.
42. Paper presented on "Smart Home System" in CICSyN 2009 International Conference, Indore, 23-25 July, 2009.
43. Paper presented on "Connected Digits Recognition using Distance Calculation at Each Digit" CICSyN 2009 International Conference, Indore, 23-25 July 2009.
44. Paper presented on "Stepped Patch Antenna for GSM Applications," International Conference on Innovations in Smart Technology, Advanced Materials and Communication Engineering, 9 June 2021.
45. Paper presented on "Transfer characteristics Analysis of Single Electron Transistor in the category Mathematical Modelling & Optimization Techniques," International Conference on Innovations in Smart Technology, Advanced Materials and Communication Engineering, 9 June 2021.

22 Details of Journal Publications/ Conferences

International Journal publications

1. Hatem S. A. Hamatta, Abdul Basit, K. A. Sharada, Y. Venkateswara Reddy, K. Ragavan, Mohiuddin Ali Khan, Arvind Kumar Shukla, **Vivek Singh Kushwah**, Roviell Berhane, "Relay Node-Based Routing Algorithm for Reducing Latency in Industrial Mobile Communication Network" *Wireless Communications and Mobile Computing*, Hindawi, **Wiley Publishers**, Volume 2023, Article ID 7297208, pp.1-10, E-ISSN:1530-8677, ISSN:1530-8669, 2023 <https://doi.org/10.1155/2023/7297208> (**SCOPUS Indexed**)
2. Rahul Tiwari, Ashish Bagwari and **Vivek Singh Kushwah**, "Multi-band frequency reconfigurable antenna using EBG and parasitic patches", *Electromagnetics*, Volume 42, 2022, Issue 6, Print ISSN: 0272-6343, Online ISSN: 1532-527X, pp. 448-461, **Taylor & Francis Online**, 9 Nov. 2022. <https://doi.org/10.1080/02726343.2022.2140925> (**SCI/SCOPUS Indexed**) (**IF:1.042**)
3. Rahul koshti, Manisha Singh, Manish Mandloi & **Vivek Kushwah**, "Improvement in spectrum sensing of wireless regional area network with empirical mode decomposition", *International Journal of Information Technology (IJIT)*, An Official Journal of Bharati Vidyapeeth's Institute of Computer Applications and Management, (BVICAM), New Delhi, **Springer Nature Singapore**, ISSN: 2511-2104 (Print), 2511-2112 (Online), Volume 6, Issue 6 pp. 79-86, January 2023. (**SCOPUS Indexed**)
4. Kapil Jain, **Vivek Singh Kushwah**, "Compact, broadband, and thin corrugated U-shaped patch-constituted MIMO antennas for airborne UAV applications", *International Journal of Microwave and Wireless Technologies*, EUMA, **Cambridge University Press**, ISSN: 1759-0787 (Print), 1759-0795 (Online), Volume 14, pp. 1-10, September 2022. . <https://doi.org/10.1017/S1759078722001003> (**SCI/SCOPUS Indexed**) (**IF:1.42**)
5. Prakash Chandra Sharma, Rohit Raja, Santosh Kumar Vishwakarma, Sanjiv Sharma, Pankaj Kumar Mishra & **Vivek Singh Kushwah**, "Analysis of brain signal processing and real-time EEG signal enhancement," *Multimedia Tools and Applications*, ISSN:1380-7501, Vol.81(28),pp. 41013–41033, **Springer Publishers**, 2022. <https://doi.org/10.1007/s11042-022-12887-z> (**SCI/SCOPUS Indexed**)(**IF:2.757**)
6. Brijendra Mishra, Arun Gangwar, **Vivek Singh Kushwah** and Rishi Sharma, "Transfer Characteristics Analysis of Single Electron Transistor", *The Electrochemical Society(ECS) Transactions*, ISSN:1938-5862, Volume 107, Number 1, pp. 11717–11724, 2022. (**SCOPUS Indexed**)
7. Shally Goyal, Vandana Vikas Thakare, **Vivek Singh Kushwah**, "Optimization of Parallel Coupled Filter Using Genetic Algorithm for C Band Applications", *The Electrochemical Society (ECS) Transactions*, ISSN:1938-5862, Volume 107, Number 1, pp. 12381–12388, 2022. (**SCOPUS Indexed**)
8. Shally Goyal, Vandana Vikas Thakare, **Vivek Singh Kushwah**, "Compact Dual Bandstop Filter Using Folded Lines and Genetic Algorithm," *The Electrochemical Society(ECS) Transactions*, ISSN:1938-5862, Volume 107, Number 1, pp. 12201–12208, 2022. (**SCOPUS Indexed**)
9. Shally Goyal, **Vivek Singh Kushwah**, "Design and Analysis of Meandered Parallel Coupled Band Pass Filter Using CPW", *Design Engineering*, ISSN: 0011-9342, Volume 9, pp. 334 - 339, 2021.
10. **Vivek Singh Kushwah**, Sweetly Jain, "Enhancement of reflection coefficient for circular ring microstrip sensor", *Elsevier, Materials Today: Proceedings*, ISSN: 2214-7853, Volume 47, pp. 6652-6655, October 2021. (**SCOPUS Indexed**)
11. Brijendra Mishra, **Vivek Singh Kushwah**, Rishi Sharma, "Analysis of single electron transistor using switched capacitor filter", *Elsevier, Materials Today: Proceedings*, ISSN: 2214-7853, Volume 47, pp. 6639-6641, October 2021. (**SCOPUS Indexed**)
12. **Vivek Singh Kushwah**, Arun Pratap Singh Kushwah, "ANN modeling of microstrip patch antenna for WLAN

- application using FR-4 material”, Elsevier, Materials Today: Proceedings, ISSN: 2214-7853, Volume 47, pp. 6647-6651, October 2021. **(SCOPUS Indexed)**
13. Sanjay Chouhan, **Vivek Singh Kushwah**, Jitendra Yadav, “Two element multi-slotted MIMO antenna for dual band applications using FR-4 material”, Elsevier, Materials Today: Proceedings, ISSN: 2214-7853, Volume 47, pp. 6874-6878, October 2021. **(SCOPUS Indexed)**
 14. Deepika Pathak, **Vivek Singh Kushwah**, “Wide band hybrid dielectric resonator antenna for C band using FR-4 material”, Elsevier, Materials Today: Proceedings, ISSN: 2214-7853, Volume 47, pp. 6719-6723, October 2021. **(SCOPUS Indexed)**
 15. Kapil Jain, **Vivek Singh Kushwah**, “Design and development of dual band antenna for sub-6 frequency band application”, Elsevier, Materials Today: Proceedings, ISSN: 2214-7853, Volume 47, pp. 6795-6798, October 2021. **(SCOPUS Indexed)**
 16. Brijendra Mishra, **Vivek Singh Kushwah**, Rishi Sharma, “Power consumption analysis of MOSFET and Single electron transistor for inverter circuit”, Elsevier, Materials Today: Proceedings, ISSN: 2214-7853, Volume 47, pp. 6600-6604, October 2021. **(SCOPUS Indexed)**
 17. Sanjay Chouhan, **Vivek Singh Kushwah**, D.K. Panda, P. Mishra, "Wideband WLAN MIMO Antenna for Smart Cities", Elsevier, Materials Today: Proceedings, ISSN: 2214-7853, Volume 29, pp. 501–507, Sep 2020. **(SCOPUS Indexed)**
 18. **Vivek Singh Kushwah**, "Comparison of Microstrip Low-Pass Filter Characteristics for various Dielectric constants", Elsevier, Materials Today: Proceedings, ISSN: 2214-7853, Volume 29, PP 524–529, Sep 2020. **(SCOPUS Indexed)**
 19. Rahul Tiwari, Ashish Bagwari and **Vivek Singh Kushwah**, "Parameter Improvement of Micro strip Patch Antennas Using Various Techniques: A Review ", Elsevier, Materials Today: Proceedings, ISSN: 2214-7853, Volume 29, PP 492–500, Sep 2020. **(SCOPUS Indexed)**
 20. Narendra Kumar Garg, Ajay Kumar Dadoria, **Vivek Singh Kushwah** (June 2020), “Design and Analysis of Noise Tolerant, Low Power Wide-OR Domino Logic by using Interconnects in DSM Technologies” International Journal of Advanced Science and Technology, ISSN: 2005-4238, Volume 28, PP 5779-5791, June 2020.
 21. **Vivek Singh Kushwah**, Narendra Kumar Garg, “A Circular Shaped Fractal Patch Antenna for Multiband Applications” International Journal of Recent Technology and Engineering (IJRTE), ISSN: 2277-3878, Volume-8 Issue-6, pp. 3441-3444, March, 2020.
 22. Shally Goyal, **Vivek Singh Kushwah**, Vandana Vikas Thakare, “A Compact CPW Bandpass Filter using Folded Lines for UWB Applications” International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-9 Issue-4, pp. 2110-2113, 2020.
 23. Deepika Pathak, Sudhir K. Sharma, and **Vivek Singh Kushwah**, “Dual-Band Linearly Polarized Integrated Dielectric Resonator Antenna for Wi-MAX Applications,” Wireless Personal Communications, **Springer Publisher**, Vol. 111, Issue 1, pp.235-243, ISSN: 0929-6212 (Print) 1572-834X (Online), March 2020. <https://doi.org/10.1007/s11277-019-06854-5> **(SCI/SCOPUS Indexed) (IF:2.2)**
 24. Rahul Tiwari, Laxman Yogi, Ashish Bagwari and **Vivek Singh Kushwah**, “Design and Performance Analysis of a Triple Band Micro-Strip Patch Antenna with CPW-Fed,” International Journal of Wireless and Microwave Technologies, ISSN: 2076-1449 (Print), ISSN: 2076-9539 (Online) Volume 9, Number 1, pp. 36-42, 2019.
 25. Sanjay Chouhan, Debendra Kumar Panda, **Vivek Singh Kushwah**, Sarthak Singhal, “Spider-Shaped Fractal MIMO antenna for WLAN/WiMAX/Wi-Fi/Bluetooth/C-band applications,” AEU-International Journal of Electronics and Communications, Elsevier Publisher, Vol. 110, pp. 152871(1-8), ISSN: 1434-8411, 2019. **(SCI/SCOPUS Indexed)(IF: 3.169)**
 26. Nitin Bansal, Brijendra Mishra, Pankaj Kumar Mishra, **Vivek Singh Kushwah**, Sanjay Jain, Rishi Sharma, “Analysis of Inverter using Single Electron Transistor” International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-8 Issue-7, pp. 117-119, 2019 **(SCOPUS Indexed)**
 27. Deepika Pathak, Sudhir K. Sharma, **Vivek Singh Kushwah**, “Multi-Band Hybrid Dielectric Resonator Antenna for Different Applications,” INROADS- An International Journal of Jaipur National University, Vol. 7, Issue 1, pp. 13-16, ISSN: 2277-4912, 2018.
 28. Sanjay Chouhan, Debendra Kumar Panda, **Vivek Singh Kushwah**, “Modified Circular Common Element Four-Port MIMO Antenna Using Diagonal Parasitic Element,” International Journal of RF and Microwave Computer-Aided Engineering, Wiley Publisher, Vol. 29, Issue 2, pp.1-8, ISSN: 1096-4290, 2019. **(SCI/SCOPUS Indexed) (IF:1.987)**
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