

Manav Rachna International Institute of Research & Studies
Department of Electronics & Communication Engineering

Faculty Publications in National and International Conference
Duration: Jan-Dec 2025 (Calender Year)

S.no.	Name of the authors	Paper Title	Conference Name	Year	Publisher	Indexing
1	Neda Fatima, , Kunal Jha, Hasim Ali, Akshat Sharma	Bridging Healthcare Gaps: Sustainable Liver Disease Diagnosis Using Machine Learning in Resource-Limited Regions	2nd International Conference on Computational Intelligence, Communication Technology and Networking	2025	IEEE Xplore	Scopus
2	Namita Kathpal, Pratima Manhas, Koduri Vinay Kumar, Bharat Goyal, D.Pavan Sai Shankar, G.Prajwalith Reddy	Exploring Data Transmission Efficiency in Li-Fi Communication Systems	9th International Conference on Opto-Electronics and Applied Optics	2025	Bentham Science	Scopus
3	Pratima Manhas, Jyoti Verma, Shaveta Thakral, Ganesh Shivaji Kadam , Ayush Naik, Tejas Mulekar	An Intelligent Traffic Density-Based Control System Using Real Time Sensing and Adaptive Signal Timing	International Conference on Technological Innovation in Multidisciplinary Engineering and Sciences (TIMES-2025)	2025	scopus	Scopus
4	Yashu Swami, T. Senthil Vadivel	16 Bit Memory and Power Efficient Truncated Booth Multiplier For High Speed Applications/Operations	2025 6th International Conference on Mobile Computing and Sustainable Informatics (ICMCSI)	2025	IEEE	Scopus
5	Yashu Swami	Smart Hexacopter System to Control the Air Pollutants in Domestic and Industrial Areas	International Conference on Advances in Computing, Control & Telecommunication Technologies - 2025	2025	Grenze journal	Scopus
6	Namita Kathpal, Seema Jogad, Milind Late	Comparative Analysis of Double-Tail Dynamic Comparators	International Conference on Intelligent Computing and Communication	2024	Springer, Singapore	Scopus
7	Yashu Swami	Adaptive Techniques in VLSI: Design and Analysis of Modified Carry Look-Ahead Adder	Hinweis Third International Conference on Advances in Electrical Measurements and Instrumentation (AEMI)	2025	Hindwies Research	Scopus
8	Yashu Swami	APICS: An Integration of Satellite Communication, GPS, and Cloud Storage for Next-Generation Robust Mobile Networks	International Conference on Electrical Electronics and Automation (E2ACON20025)	2025	Springer, Singapore	Scopus
9	Yashu Swami, Sushant, Ikran,Ridhi, Vinay	AI Assisted Smart Automated Evaluation System	International Conference on Electrical Electronics and Automation (E2ACON20025)	2025	Springer, Singapore	Scopus
10	Ashu Gautam, Akshat,Manmohan Aggarwal, Aditya Ranjan, Prateek Sharma, Rohit Kumar	Arduino – Based Voice Controller Trolley	8 th International Conference on Innovative Computing and Communication (ICICC-2025), organized by	2025	Elsevier SSRN Reputed Series	Scopus
11	Pratima Mehta	IOT enabled smart boat for Enhanced Pond Fishing	International Conference on Next Generation Computing(ICNGC-2K25)	2025	IEEE	Scopus
12	Neda Fatima, Eishan Bhat	Advanced Pressure Sensors for Enhancing Railway Track Safety	INDIACom 2025	2025	IEEE	Scopus
13	Neda Fatima	Revolutionizing Grain Distribution: A Blockchain And AI Powered System	ICIDSSD 2025 5th International Conference on ICT for Digital Smart and Sustainable Development	2025	Springer	Scopus
14	Namita Kathpal, Shobhit Mishra, Shradha Gola, Daksheyini	Implementation of Smart Hydroponic Farming Using AI Controller with Mobile Application System	3rd International Conference on Emerging Applications of Artificial Intelligence, Machine Learning, and Cybersecurity (ICAMC-2025)	2025	Springer	Scopus
15	Abhiruchi Passi, Vimlesh Singh	Design and Analysis of New Dual-Channel Microstrip Diplexer for GSM and WLAN Band Applications	3rd International Conference on Computational Electronics for Wireless Communications- 2023	2025	Springer	Scopus

Manav Rachna International Institute of Research & Studies
Department of Electronics & Communication Engineering

Faculty Publications in National and International Conference

16	Pratima Mehta, Namita Kathpal, Mohit Kumar, Utkarsh Chaudhary	Next Generation High speed Data Transfer using Li-Fi- A Review	1st International Conference on Sustainability and Technological Advancements in Engineering Domain (SUSTAINED)	2025	IEEE Digital Explore	Scopus
17	Pratima Mehta, Shaveta Thakral, Jyoti Verma	Enhancing Data Security through Advanced Scrambling Techniques: A Contemporary Approach	6th International Conference on Data Science and Applications (ICDSA 2025)	2025	Springer	Scopus
18	Jyoti Verma, Pratima Manhas, Shweta Thakral	Montgomery Multiplier and its Applications in Cryptographic and High-Speed Arithmetic Systems	TIMES 2025 conference on Building a Greener Future with Data, Semiconductors, and Energy Innovation	2025	Springer	Scopus
19	Namita Kathpal, Shilpi Gupta, R.Girija, Seema Jogad	Optimizing Fraud Detection by Integrating Ensemble Methods and Neural Networks	Soft Computing: Theories and Applications	2025	LNSS	Scopus
20	Namita Kathpal, Ritish Kumar, Piyush Dhotra, Ashit Alokaj, Abhiruchi Passi	Evaluating the Role of AI in Optimizing Urban Traffic Flow Management	TIMES 2025 conference on Building a Greener Future with Data, Semiconductors, and Energy Innovation	2025	Springer	Scopus
21	Namita Kathpal, Jyoti Verma, Manikanta Kavala, Hemanth Darapu, Hareesh Yarabati, Jay Deekshith Karanam	IoT- Powered Alcohol Detection and Vehicle Control: A Review of Safety-Driven Innovation	TIMES 2025 conference on Building a Greener Future with Data, Semiconductors, and Energy Innovation	2025	Springer	Scopus
22	Namita Kathpal, Shefali Shinghal, Shilpi Gupta, R. Girija	Adaptive AI in Wireless Sensor Networks: Unveiling Emerging Paradigms and Future Pathways	TIMES 2025 conference on Building a Greener Future with Data, Semiconductors, and Energy Innovation	2025	Springer	Scopus
23	Namita Kathpal, Bhaskar Vignesh Karumuri, Karthik Gurre, Charan Dodda, Bala Durga Surya Nikhil Paluri, Jyoti	Real-Time Gas Leakage Monitoring and Alert System Using IoT and Mobile Notification BOT	ICDAIS 2025	2025	Taylor and Francis	Scopus
24	Jyoti Verma, Pratima Manhas, Sonu Rana, Neerja Negi	Novel Method for Image Steganography Utilizing the Blend of LSB and MSB	2nd International Conference on Recent Developments in Cyber Security, ReDCySec 2024	2024	Springer	Scopus
25	Jyoti Verma, Pratima Manhas	Autism Spectrum Disorder Detection: Integrating Facial Behavior Analysis and Questionnaire Data	1st International Conference on Digital Innovations for Sustainable Solutions (Icdiss - 2025)	2025	IEEE	Scopus
26	Umesh Dutta	Evaluating the Assessment of CNN and YOLO based models for detecting road accidents	1st International Conference on Digital Innovations for Sustainable Solutions (Icdiss - 2025)	2025	IEEE	Scopus
27	Jyoti Verma, Pratima Manhas, Shweta Thakral	AI-Enabled Lift-Toilet System for Enhanced Accessibility in High-Density Urban Housing	International Conference on Digital Innovation in Electronics, Communication and AI (DIECAI 2025)	2025	IEEE	Scopus
28	N.Deepa, Ketha Sathwik Reddy	Image segmentation of unlabelled periapical radiographs to detect periapical lesions	Recent Trends in Artificial Intelligence and Data Sciences: Select Proceedings of the 15th International Conference—CONFLUENCE 2025	2025	Springer	Scopus
29	Leena G.	The Performance Analysis and Monitoring of IoT Enabled Islanded Mode Photovoltaic (PV) System using Simulation	International Conference on Modern Sustainable Systems (CMSS)	2025	IEEE Xplore	Scopus

OTHERS

S.no.	Name of the teacher	Title of the paper, if published in Conference proceedings	Conference Name	Year	Publisher	Indexing
1	Pratima Mehta, Jyoti Verma, Shaveta Thakral, Neha Shahare, Sujata Sachin Dandel	Mobile-to-Mobile Charging: A Novel Approach for Wireless Energy Transfer	3rd international conference on Innovative Trends in Engineering and Technology (ICITET-2025) at K J College of Engineering and	2025	UGC care	K J College of Engineering & Management Research, Pune
2	Pratima Mehta, Jyoti Verma, Shaveta Thakral, Neha Shahare, Tanmay, Mayank	Static and Dynamic Power Insights in 1-bit Comparator Design via Vivado FPGA Implementation	3rd international conference on Innovative Trends in Engineering and Technology (ICITET-2025) at K J College of Engineering and Management Research, Pune	2025	UGC care	K J College of Engineering & Management Research, Pune

BOOKS

S.no.	Name of the teacher	Book Name	Publisher	Year	ISBN	Indexing
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Manav Rachna International Institute of Research & Studies
Department of Electronics & Communication Engineering

Faculty Publications in National and International Conference

1	Umesh Dutta, Vikas Sharma, Dev Dutta, Naveed Qadir	Arduino Uno Ek R4 WiFi	Evincepub Publishing	2025	978-9373351971	NA
BOOK CHAPTERS						
S.no.	Name of the authors	Paper Title	Conference Name	Year	Publisher	Indexing
1	Geeta Nijhawan, Vimlesh Singh, Priyanka Bansal	Enhancing speaker recognition by reducing feature vector dimensions	Progressive Computational Intelligence, Information Technology and Networking	2025	CRC Press	Scopus
2	Vimlesh Singh, Swastika Bansal, Amrinder Kaur, Priyanka Bansal	Radio waves and vision: Investigating potential risks	Progressive Computational Intelligence, Information Technology and Networking	2025	CRC Press	Scopus
3	N.Deepa, R. Girija, Stuti, Tanisha Bhayana	Opportunities and challenges in telemedicine implementation	Intelligent Computing and Communication Techniques	2025	CRC Press	Scopus
4	N.Deepa, R. Girija	Technological Progress in AI for recognizing Tuberculosis using Cough Patterns- An Overview	Advances in VLSI, signal processing and wireless communication	2025	Springer	Scopus
5	Rachit Goyal, Karan, Akash Jain, Namita Kathpal, Monika, Jyoti Verma	Scholar's connect: A private academic communication application for universities	Progressive Computational Intelligence, Information Technology and Networking, CRC Press	2025	CRC Press	Scopus
6	Gupta, Shilpi, R. Girija, Seema Jogad, and Namita Kathpal	Optimizing Fraud Detection by Integrating Ensemble Methods	Soft Computing: Theories and Applications: Proceedings of SoCTA 2024	2025	Springer Singapore	Scopus

Total Count	
Scopus	29
Others	2
Book Chapters	6
Books	1

Manav Rachna International Institute of Research & Studies
Department of Electronics & Communication Engineering

Faculty Publications in National and International Conference

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S.no.	Name of the authors	Paper Title	Conference Name	Year	Publisher	Indexing
1	Umesh Dutta,Simram & Srinidhi	A Comparative Analysis of Machine Learning Techniques for Breast Cancer Prediction	2024 2nd International Conference on Intelligent Data Communication Technologies and Internet of Things (IDCIoT)	2024	IEEE	Scopus
2	Jyoti Verma,Isha Rajput, Hemant Ahuja	Modern Control Methods to Boost Microgrid's Performance	4th IEEE International Conference on Advance Computing and Innovative Technologies in Engineering, ICACITE 2024Greater	2024	IEEE	Scopus
3	Geeta Nijhawan,Gourav Verma, Suman Arora	A Thermoelectric Energy Harvesting System for Environmental Monitoring in WSN and IoT	2nd International Conference on "Device Intelligence, Computing and Communication Technologies" (DICCT-2024)	2024	IEEE Xplore	Scopus
4	Pratima Manhas,Monika	A Novel Scheme to Prevent Vehicle Collision in Single Lane	International Conference on Automation & Computation (AUTOCOM-24)	2024	IEEE Xplore	Scopus
5	Pratima Manhas,Abhiruchi Passi, Mohammad Saad	Schematic of Electronic Apex Locators,Different Generations and Inexpensive Designing Method:An Overview	International Conference on Emerging Innovations and Advanced Computing INNCOCOMP 2024 Ethnic India, Rai, Sonipat, Delhi-NCR, India	2024	IEEE Xplore	Scopus
6	Neda Fatima,Shubham, Basant, Ishant	Evaluating the Impact of Consensus Mechanisms on Blockchain-Based Data Security: A Systematic Review	3rd DELCON 2024, 3rd International Conference on "Advancing Technology for Sustainable Development",	2024	IEEE	Scopus
7	Neda Fatima,Usha Batra, Mukesh Prasad, Hasim Ali	Blockchain-powered Federated Learning: A Review on Current Practices	4th International Conference on Pervasive Computing and Social Networking, ICPCSN 2024	2024	IEEE	Scopus
8	Neda Fatima,Ananya Nair, Shruti Jha, Hasim Ali	Comparative Analysis of Classification of Parkinson Disease using Deep Learning Algorithms	3rd International Conference on Sentiment Analysis and Deep Learning, ICSADL 2024	2024	IEEE	Scopus
9	Neda Fatima, Dr. S. M. N. Islam, Jasdeep, Manav, Deepanshu	Systematic review of GAN for enhancing efficiency in AI in gaming	International Conference on Advances in Computing Research on Science Engineering and Technology	2024	IEEE	Scopus
10	Neda Fatima,Prem, Aryan, Ankur	IoT in Agriculture: Solving Agricultural issues using Internet of Things	International Conference on ICT for Digital, Smart and Sustainable Development (ICIDSSD)	2024	Springer Nature	Scopus
11	Neda Fatima,Dr. S. M. N. Islam, Prem, Anish	Quantum Machine Learning: Bridging Classical and Quantum Frontiers	International Conference on ICT for Digital, Smart and Sustainable Development (ICIDSSD)	2024	Springer Nature	Scopus
12	Neda Fatima,Shobhit, Shiva	GAN-powered Predictive Analytics for the Detection and Diagnosis of Tuberculosis	3rd DELCON 2024, 3rd International Conference on "Advancing Technology for Sustainable Development",	2024	IEEE	Scopus
13	Ashu Gautam;Divyanshu Tiwari; Sourabh Kumar; Neda Fatima	Sustainable Software Engineering: Integrating Environmental Considerations in Software Development	3rd DELCON 2024, 3rd International Conference on "Advancing Technology for Sustainable Development",	2024	IEEE	Scopus
14	Neda Fatima,Anmol, Hasim	Smart and Sustainable Agriculture: IoT, AI, and ML for Climate-Resilient Disease Forecasting	1st International Conference on Sustainability and Technological Advancements in Engineering Domain (SUSTAINED)	2024	IEEE	Scopus
15	Neda Fatima,Salman Ahmad Siddiqui, Dr. S. A.M. Rizvi,	Sustainable IoT Entry System with Contactless Temperature Detection and Cloud-Based Contact Tracing"	1st International Conference on Sustainability and Technological Advancements in Engineering Domain (SUSTAINED)	2024	IEEE	Scopus
16	Pratima Manhas,Himanshu, Amrithesh, Chirag	Methods to diagnose Autism using Artificial Intelligence: A Review	International Conference on Communication, Computing, and Energy Efficiency (I3CEET-2024)	2024	NA	Scopus
17	Jyoti Verma,Sonu Rana, Pragati Shrivastava Deb,Namita Kathpal,Vimlesh Singh, Abhiruchi Passi	Fusion of Cryptography and Steganography with LSB for Secure Data Hiding	1st International Conference on Sustainability and Technological Advancements in Engineering Domain (SUSTAINED)	2024	IEEE	Scopus
18	Jyoti Verma,Ashit Alokaj, Ayush Gupta, Hemraj Chauhan, Shahid Manzoor	Automation and Connectivity: How Autonomous Bikes Can Integrate with Smart Transportation Networks	1st International Conference on Sustainability and Technological Advancements in Engineering Domain (SUSTAINED)	2024	IEEE	Scopus

Manav Rachna International Institute of Research & Studies
Department of Electronics & Communication Engineering

Faculty Publications in National and International Conference

19	Abhiruchi Passi, Dr. Vimlesh Singh	Design and Analysis of New Dual Channel Microstrip Diplexer for GSM and WLAN Band applications	3rd International Conference on Computational Electronics for Wireless Communications	2024	Springer Nature Link	Scopus
20	Namita Kathpal, Abhiruchi Passi, Raghav Goyal, Saurav Gosain, Kamil, Ayushi	Li-Fi - Future technology of wireless communication	1st International Conference on Sustainability and Technological Advancements in Engineering Domain (SUSTAINED)	2024	IEEE	Scopus
21	Namita Kathpal, Seema Jogad	Development of Sustainable e-book Portal	1st International Conference on Sustainability and Technological Advancements in Engineering Domain (SUSTAINED)	2024	IEEE	Scopus
22	Namita Kathpal, Seema Jogad	Comparative Analysis of Double-Tail Dynamic Comparators	7th International Conference on Intelligent Computing and Communication ICICC-2024	2024	Springer	Scopus
23	Namita Kathpal, Shilpi Gupta, R. Girija	Optimizing Fraud Detection by Integrating Ensemble Methods and Neural Networks	9th International Conference on Soft Computing: Theories and Applications	2024	Springer	Scopus
24	Namita Kathpal, Jyoti Verma, Monika Shah, Rachit Goyal, Karan, Akash Jain	Scholar'sConnect: A Private Academic Communication Application For Universities	International Conference on Progressive Computational Intelligence, Information Technology, and Networking (Com-IT-Con 2024)	2024	Taylor and Francis	Scopus
25	Amana Yadav, Gauttam Jangir, Gaurav Purohit, Nisheeth Joshi	Evaluating Machine Learning Algorithms on BCI Dataset	1st International Conference on Sustainability and Technological Advancements in Engineering Domain (SUSTAINED)	2024	IEEE	Scopus
26	Amana Yadav, Abhiruchi Passi, Neha Choudhary, Neelu Parik, Ikroop Verma	Performance Analysis of Ad-hoc Network	1st International Conference on Sustainability and Technological Advancements in Engineering Domain (SUSTAINED)	2024	IEEE	Scopus
27	Dr. Amana Yadav, Dev Malik, Pratham, Tejas, Parth	Enhancing the Effectiveness of Advanced Driver Assistance Systems (ADAS)	1st International Conference on Sustainability and Technological Advancements in Engineering Domain (SUSTAINED)	2024	IEEE	Scopus
28	Jyoti Verma, Pratima Manhas, Neerja, Shweta, Sonu	A New Method for Image Steganography using the Combination of LSB and MSB	Springer International Conference on Recent Developments in Cyber Security, Sharda University, Greater Noida	2024	Springer	Scopus
29	Vimlesh Singh, Udayi Bhan Singh,	Internet of Things Transforming Co-Working Through the Prism of Indian Real Estate	Recent Advances in Infrastructure Development	2024	WordPress	Scopus
30	Amana Yadav, Naresh Grover	A Disease Detection System using ECG Features and other Body Parameters	International Conference on Multidisciplinary Research & Innovation ICMRI2K24)	2024	Taylor & Francis Group	Scopus
31	Naresh Grover, Jaya Kaushik	An Intrusion Detection System for Battery Exhaustion Attack in Mobile Devices	2024 2nd International Conference on Advances in Computation, Communication and Information Technology, ICAICCIT 2024	2024	IEEE	Scopus

BOOKS

S.no.	Name of the authors	Book Name	Publisher	Year	ISBN	Indexing
1	Umesh Dutta, Dr. Vijay Kumar, Simram & Srinidhi	Getting Started with Machine Learning	White Falcon Publishing	2024	979-889222365	NA
2	Umesh Dutta, Vikas Sharma, Aaditya Taluja, Kartik S. Kachhawa	Hands-on with Raspberry Pi Pico: MicroPython Based Approach	Evincepub Publishing	2024	978-9356736955	NA
3	Umesh Dutta, Shaifali Ruhil, Vandana Khanna, Neeraj Kumar Shukla	Design of Low Leakage Quad Gate Stacked Nano-Sheets FinFET Device for Memory and Analog Circuits	GEH Press	2024	9798989862399	NA

BOOK CHAPTERS

S.no.	Name of the authors	Paper Title	Conference Name	Year	Publisher	Indexing
1	Neda Fatima, Prem, Anish	Detection of Real Versus Fake Images on Social Media Through Generative Adversarial Networks	Studies in Computational Intelligence	2024	Springer Nature	Scopus
2	Namita Kathpal, Pratima, Jyoti Verma, Seema Jogad	Industry 5.0 with Artificial Intelligence- A Data-Driven Approach	Taylor and Francis	2024	Taylor and Francis	Scopus
3	Deepa N., Girija R., Varun Kumar Gera	An Artificial Intelligence-Based Portable Rainwater Harvesting Kit	Recent Advances in Industrial and Systems Engineering (RAISE 2023)	2024	Springer, Singapore	Scopus

Total Count	
Scopus	31
Book Chapters	3
Books	3

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Department of Electronics & Communication Engineering

Faculty Publications in National and International Conference

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S.no.	Name of the authors	Paper Title	Conference Name	Year	Publisher	Indexing
1	Pratima Manhas, Jyoti Verma, Shaveta Thakral	Design of broadband DGS based antenna for RMSS application	2nd International Conference on Applied Artificial Intelligence and computing	2023	IEEE Xplore	Scopus
2	Y.K Awasthi, Sonali Kumari and Dipali Bansal	Design of multiband antenna with staircase effect in ground for multiband application	11th International conference on Frontier of intelligent computing:Theory and applications	2023	Springer	Scopus
3	Y.K Awasthi, Sonali Kumari and Dipali Bansal	Design of Bow-Tie antenna for multiband applications	17 th INDIA Com;2023 10th international conference on computing for Sustainable Global Development	2023	IEEE Xplore	Scopus
4	Jyoti Verma, Pratima Manhas, Shaveta Thakral	Novel Fuzzy model for network selection in heterogeneous network	4th International Conference on Communication, circuits & Systems (IC3S-2023)	2023	IEEE	Scopus
5	Abhiruchi Passi, Yaman Hooda, Haobam Derit Singh, Jimmy Mehta,Sahil Mehta	An Interdisciplinary Approach for Evaluation of Green Building Index	International Conference on Advances in Computation, Communication and Information Technology	2023	IEEE Xplore	Scopus
6	Jyoti Verma,Pratima Manhas, Shaveta Thakral, Abhiruchi Passi	IoT Enabled Smart Garbage Monitoring System	International Conference on Newer Engineering Concepts and Technology (E3S Web of Conferences)	2023	E3S Web Conf.	Scopus
7	Vimlesh Singh, Vani Mahindroo, Kashish Sadadiwala	Triple-Band Polarization Independent C-Band Metamaterial Absorber	5th International Conference on Communication, Device and Networking, ICCDN 2021 (Lecture Notes in Electrical Engineering)	2023	Springer Nature	Scopus
8	Pratima Manhas, Monika	A Study on Driving Strategy of Vehicular System using IoT	2nd International Conference on Computational Modelling, Simulation and Optimization, ICCMSO 2023	2023	IEEE Xplore	Scopus
9	Pratima Manhas, Shaveta Thakral, Jyoti Verma	Quantum Implementation of Reversible Logic Gates Using RCViewer+ Tool	3rd International Conference on Emerging Technologies in Data Mining and Information Security, IEMIS 2022	2023	Springer	Scopus
10	Jyoti Verma, Sonu Rana, Anil Kumar Gautam	A Dual Band Coplanar Fed Circular Antenna for WLAN, WiMAX, and Satellite Applications	14th International Conference on Computing Communication and Networking Technologies, ICCCNT 2023	2023	IEEE Xplore	Scopus
11	Leena G., Pragati Shrivastava Deb, Ankit Kumar Vishwakarma, Varun Gaur, Tushar, Tarun Raghav	Model Reduction and Comparative Analysis of DC-DC Converter	3rd International Conference on Advance Computing and Innovative Technologies in Engineering, ICACITE 2023	2023	IEEE Xplore	Scopus
12	Leena G., Pragati Shrivastava Deb	Model Order Reduction of Single Machine Infinite Bus Power System	3rd International Conference on Advance Computing and Innovative Technologies in Engineering, ICACITE 2023	2023	IEEE Xplore	Scopus

OTHERS

S.no.	Name of the authors	Paper Title	Conference Title	Year	Publisher	Indexing
1	Jyoti Verma, Abhiruchi Passi, Shaveta Thakral	Raspberry Pi: The Next Revolution in the Internet of Things	International Conference on Advances in Computation, Communication and Information Technology	2023	Others	Others
2	Pratima Manhas, Shaveta Thakral, Nilesh B. Nagrale	Performance improvement of EBG based Patch antenna for tumour detection	5th International Conference on Sustainable and Innovative Solutions for Current Challenges in Engineering & Technology (ICSISCET 2023)	2023	Others	Others
3	Abhiruchi Passi and Wahid	Adaptive Clustering –An optimal solution to Hotspot issue in Wireless Sensor Networks	2nd International Conference on Renewable Technologies in Engineering(ICRTE-2022)	2022	Others	Others

BOOKS

S.no.	Name of the authors	Book Name	Publisher	Year	ISBN	Indexing
1	Umesh Dutta	Django for Everyone	Notion Press	2023	979-8890661517	Others
2	Umesh Dutta	8051 Microcontroller Fundamentals and Programming: Project Based Learning Approach	Clever Fox Publishing	2023	978-9394437852	Others

BOOK CHAPTERS

Manav Rachna International Institute of Research & Studies
Department of Electronics & Communication Engineering

Faculty Publications in National and International Conference

S.no.	Name of the authors	Paper Title	Conference Name	Year	Publisher	Indexing
1	Y.K Awasthi, Sonali Kumari and Dipali Bansal	The design mechanisms of multiband antennas from 1g to 5g: A comprehensive review	Digital Transformation: Modernization and Optimization of Wireless Networks	2023	Elsevier	Scopus
2	Leena G., Geeta Yadav,Dheeraj Joshi, M.K Soni	Application of genetic algorithm in sensor networks and smart grid	Optimization Techniques in Engineering: Advances and Applications	2023	Wiley	Scopus
Total Count						
Scopus			10			
Others			3			
Book Chapters			2			
Books			2			

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S.no.	Name of the authors	Paper Title	Conference Name	Year	Publisher	Indexing
1	Pratima Manhas, Jyoti Verma	Quantum implementation of Reversible logic gates using RCViewer+ tool	International Conference on Emerging Technologies in Data Mining and information Security on 23-25 Feb 2022.(Springer)	2022	Springer	Scopus
2	Abhiruchi Passi, Ab Wahid Bhatt	Wireless Sensor Network Motes: A Comparative Survey	International Conference on Computing for Sustainable Global Development, technically sponsored by IEEE Delhi Section, 23rd to 25th March, 2022 at Bharati Vidyapeeth, New Delhi (INDIA)	2022	IEEE	Scopus
3	Dipa Nitin Kokane, Geeta Nijhawn, Shruti Vashist	Network Connectivity Technologies for Internet of Things	Second International Conference on Artificial Intelligence and Smart Systems (ICAIS 2022), JCT College of Engineering and Technology, Coimbatore JCT College of Engineering and Technology, Coimbatore Supported by IEEE	2022	Scopus	Scopus
4	Kashish Mahindroo, Vani Sadadiwala, Vimlesh Singh, Devender Sharma Sarthak Singhal	Triple Band Polarization Independent C-Band Metamaterial Absorber	5th International Conference on Communication, Devices & Networking, Department of Electronics & Communication Engineering, Sikkim Manipal Institute of Technology, Sikkim Manipal University, Sikkim, India	2022	Springer	Scopus
5	Y K Awasthi, Gaurav Saxena, Priyanka Jain, R. K Yadav	High Isolation EBG Based C-Band MIMO Antenna for RADAR Applications	International Conference on Advancement in Electronics and Communication Engineering(AECE-2022),	2022	Elsevier	Scopus
6	Dipa Nitin Kokane, Dr. Geeta Nijhawn, Dr. Shruti Vashist	Non-Orthogonal Multiple Access with Alamouti Technique for Future Wireless Communication	2nd International Conference on Communication, Computing & Industry 4.0-2021 C2i4-2021, CMRIT, Bangalore Supported by IEEE	2022	IEEE	Scopus
7	Y K Awasthi, Gaurav Saxena, Sanjay Chintakindi, Mayank Kumar, Prashant Nigam, Neha Biswas	Design and Analysis of X-Band Metasurface Absorber for Stealth, EMI Reduction and Energy Harvesting Applications	Renewable Energy Optimization, Planning and Control	2022	Springer	Scopus
8	Dipa Nitin Kokane, Geeta Nijhawn, Shruti Vashist	Performance of Non-Orthogonal Multiple Access with MIMO System	9th International conference on Innovation in Computer Science & Engineering (ICICSE-2021) Supported by Springer	2022	Springer	Scopus
9	Vimlesh Singh, VaniMahindroo, Priyanka Bansal	Human Body Monitoring Wearable Antenna	4th International Conference on Optical and Wireless Technologies	2022	Lecture Notes in Electrical Engineering	Scopus
10	Leena G. ; Geeta Yadav; M.K Soni; Dheeraj Joshi	ANFIS (Adaptive Neuro-Fuzzy Inference System) based on Microgrid's Reliability and Availability	10th IEEE Power India International Conference, PIICON 2022	2022	IEEE	Scopus
11	Leena G; Jibin Emmanuel Paul	Cost Efficient Automatic Filling System for Differently Sized Bottles	1st International Conference on Recent Trends in Microelectronics, Automation, Computing and Communications Systems, ICMACC 2022	2022	Springer	Scopus
12	Abhiruchi Passi and Wahid Bhatt	Adaptive Clustering –An optimal solution to Hotspot issue in Wireless Sensor Networks	2nd International Conference on Renewable Technologies in Engineering(ICRTE-2022)	2022	Springer	Scopus

Manav Rachna International Institute of Research & Studies
Department of Electronics & Communication Engineering

Faculty Publications in National and International Conference

BOOK CHAPTER						
S.no.	Name of the authors	Paper Title	Book Title	Year	Publisher	Indexing
1	Geeta Nijhawn, Shruti Vashi, Anita Khosla	Blockchain Technology in Healthcare	EAI/Springer Innovations in Communication and Computing	2022	Smart Antenna-Springer	Springer Nature Link
2	Vimlesh Singh, Amit Kumar, Mahesh Kumar Agwariya	Applications of Microstrip Antenna in IoT	EAI/Springer Innovations in Communication and Computing	2022	Smart Antenna-Springer	Springer Nature Link
3	Vimlesh Singh, Amit Kumar, Aghwariya, Mahesh Kumar	Design and Analysis of DGS-Based Fractal Antenna for Metrological Satellite	EAI/Springer Innovations in Communication and Computing	2022	Smart Antenna-Springer	Springer Nature Link

BOOKS						
S.no.	Name of the authors	Book Name	Publisher	Year	ISBN	Indexing
1	Umesh Dutta, Vikas Sharma, Nilansh Khurana, Shivam Gupta	Tinkering With Raspberry Pi	Evincepub publishing	2022	9789354467479	Others

Total Count	
Scopus	12
Book Chapters	3
Books	1

Manav Rachna International Institute of Research & Studies
Department of Electronics & Communication Engineering

Faculty Publications in National and International Conference

Duration: Jan-Dec 2021 (Calender Year)

S.no.	Name of the authors	Paper Title	Conference Name	Year	Publisher	Indexing
1	Abhiruchi Passi and Monika	Digital Image Forensic based on Machine Learning approach for Forgery Detection and Localization	International Conference on Mechatronics and Artificial Intelligence held at SGT University, Gurgaon	2021	IOP Publishing	Scopus
2	Abhiruchi Passi, Rajshree, and M.K. Soni	Perspective of wireless sensor networks towards Environment: Gaps and Challenges	International Conference on Mechatronics and Artificial Intelligence held at SGT University, Gurgaon	2021	IOP Publishing	Scopus
3	Jyoti Verma, Isha Rajput, Hemant Ahuja	Controller Design for Dynamic Stability and Performance Enhancement of Renewable Energy Systems	International Conference on Modeling, Simulation and Optimization, CoMSO 2020	2021	Smart Innovation, Systems and Technologies	Scopus
4	Dr. Geeta Nijhawn, Suman Arora, Gourav Verma	A systematic survey on various energy harvesting systems for WSN applications	1st International Conference on Industrial Electronics Research and Applications, ICIERA 2021	2021	IEEE	Scopus
5	Dipa Nitin Kokane, Dr. Geeta Nijhawn, Dr. Shruti Vashist	Non Orthogonal Multiple Access With Interference Cancellation Scheme	6th International conference on Soft Computing: Theories and Applications Scopus Indexed LNNS Springer Proceedings, IIIT Kota, Rajasthan	2021	Springer	Scopus
6	Manoj Kumar Tomar, Vimlesh Singh , Laxya	A study on Development of CNTFET based Analog & Digital Circuits	4th International Conference on Recent Developments in Control, Automation & Power Engineering (RDCAPE-2021), Amity University Noida.	2021	IEEE	Scopus
7	Vimlesh Singh, Yogendra Kumar Awasthi, Joy Singh, Sudhanshu Kumar Jha, Saurabh Raturi	Design of Low Pass Filter using Microstrip Line – A Comparative Study	IEEE 8th International Conference on Signal Processing and Integrated Networks (Spin-2021)	2021	IEEE	Scopus
8	Niharika Thakur, Y K Awasthi, A S Siddiqui, Manisha Hooda	Comparative Efficacy of Optimization Techniques towards Multi-Objective Electric Power Quality Improvement	IEEE 8th International Conference on Signal Processing and Integrated Networks (Spin-2021)	2021	IEEE	Scopus
9	Y K Awasthi, Manisha Hooda, A S Siddiqui, Niharika Thakur	Parametric Analysis: Determining the Efficacy of Varied Approaches under Deregulated Electricity Market	Proceedings of the 8th International Conference on Signal Processing and Integrated Networks, SPIN 2021	2021	Scopus	Scopus
10	Monika Dhiman, Dr. Pratima Manhas	Review of Vehicle to Vehicle Communication System by using IOT	International Conference on Innovations in Electronics & Communication Engineering (ICIECE-2021) Springer	2021	Springer	Scopus

OTHERS

S.no.	Name of the authors	Paper Title	Conference Name	Year	Publisher	Indexing
1	Abhiruchi Passi	Wireless Sensor Networks: An overview	International Conference on Reinventing Business, Entrepreneurship and Sustainability in the Era of Challenges, MRIIRS from 26th February to 27th February, 2021	2021	MRIIRS	NA
2	Dr. Vimlesh Singh	Nanomaterial: Aerospace solution	2nd International Conference on Industrial and Manufacturing Systems (CIMS-2021)	2021	CIMS-2021	NA

BOOK CHAPTERS

S.no.	Name of the authors	Paper Title	Conference Name	Year	Publisher	Indexing
1	Vimlesh Singh, Udai Bhan Singh, Priyanka Bansal & Amrinder Dhiman	Self-Employment in Computer and Electronics Engineering	IETE publication	2021	IETE publication	Scopus
2	Vimlesh Singh, Amit Kumar and Mahesh Kumar Agwariya	Smart Antennas Latest Trends in Design and Application	Multiband Fractal Antenna with DGS	2021	Springer nature	Scopus

BOOKS

S.no.	Name of the authors	Book Name	Publisher	Year	ISBN	Indexing
1	Shaveta Thakral, Jyoti Verma, Pratima Manhas	Computer Organization and Architecture	Evincepub Publishing	2021	9789354467479	Book

Total Count	
Scopus	10
Others	2
Book Chapters	2
Books	1