

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

List of Patents Awarded/Published/Filed

Duration: AY: 2025-26

S.no	Name of the Teacher	Patent Number	Title of the patent	Year of Awarded/Published/Filed	Status Awarded/Published/Filed
1	Dr. Umesh Dutta	202511069936	Environment Friendly Vehicle Horn	Ay: 2025-26	Published
2	Dr. Neda Fatima	459423-001	Critical Care Connect System and Method for Health Monitoring	Ay: 2025-26	Published
3	Dr. Neda Fatima and Dr. Namita Kathpal	459423-001	Wireless Pen Mouse with Integrated Gesture Recognition for Human-Computer Interaction	Ay: 2025-26	Grant
4	Namita Kathpal	455494-001	Portable HPLC Device for estimation of drugs in Rat Plasma Protein	Ay: 2025-26	Grant
5	Dr. Vimlesh Singh, Dr. Abhiruchi Passi & Dr. Amana Yadav, Akshit Panchal	465418-001	Light Tree	Ay: 2025-26	Published
6	Dr. Vimlesh Singh & Dr. Geeta Nijhawan, Deepak, Amit, Sandeep, Vishnu	465415-001	Lighting Trees	Ay: 2025-26	Published
7	Dr. Vimlesh Singh & Dr. Amana Yadav, Dogga. Shyam Sai Prasad, Dogga. Hema Prasad	456417-001	Lighting Shrub	Ay: 2025-26	Published

Total Count	
Patent Grant	2
Patent Published	5
Patent Filed	1

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1	Dr. Neda Fatima	424299-001	IoT-Based Electroconvulsive Therapy Device for Children	Ay: 2024-25	Grant
2	Dr. Pratima Manhas	428656-001	AI based Fire fighting robotics Vehicle	Ay: 2024-25	Grant
3	Mr. Mandeep Singh	MRI-001-039	Smart Controller Device and Method for Conserving Energy	Ay: 2024-25	Filed
4	Dr. Neda Fatima	202411104471	Synthesis of Decentralized Communication System using Blockchain for Secure, Encrypted Walkie-Talkie	Ay: 2024-25	Published
5	Dr. Jyoti Verma	439360-001	AI-Powered Device for Smart Construction Monitoring and Optimization	Ay: 2024-25	Grant
6	Dr. Neda Fatima and Dr. Namita Kathpal	459423-001	Wireless Pen Mouse with Integrated Gesture Recognition for Human-Computer Interaction	Ay: 2024-25	Filed
7	Dr. Vimlesh Singh & Dr. Abhiruchi Passi	452982-001	Smart Charging Station for Electric Vehicle	Ay: 2024-25	Grant
8	Dr. Vimlesh Singh & Dr. Abhiruchi Passi	454180-001	Device for Analysis of Metabolic Disorders	Ay: 2024-25	Filed
9	Dr. Umesh Dutta	202511044218	Tubeless Wheel Assembly for Vehicle	Ay: 2024-25	Published
10	Dr. Jyoti Verma	202411006416A	A Novel Method for Real-Time Autonomous Vehicle Traffic Management	Ay: 2024-25	Published
11	Dr. Vimlesh Singh	202511037398	10T SRAM Memory Circuit	Ay: 2024-25	Published

Total Count	
Patent Grant	4
Patent Published	5
Patent Filed	2

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List of Patents Awarded/Published/Filed

Duration: AY: 2023-24

S.no	Name of the Teacher	Patent Number	Title of the patent	Year of Awarded/Published/Filed	Status Awarded/Published/Filed
1	Dr. Vimlesh Singh	396129-001	BioSensor Based Device to Detect Lungs Cancer	Ay: 2023-24	Grant
2	Dr. Geeta Nijhawan	365324-001	Virtual Reality Headset	Ay: 2023-24	Grant
3	Dr. Vimlesh Singh	397766001	Machine learning based soil sampling Stick	Ay: 2023-24	Grant
4	Dr. Jyoti Verma	202411006416A	A Novel Method for Real - Time Autonomous Vehicle Traffic Management	Ay: 2023-24	Published

Total Count	
Patent Grant	3
Patent Published	1
Patent Filed	0

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List of Patents Awarded/Published/Filed

Duration: AY: 2022-23

S.no	Name of the Teacher	Patent Number	Title of the patent	Year of Awarded/Published/Filed	Status Awarded/Published/Filed
1	Dr. Y K Awasthi	202211056771	A system and method for bullet trajectory of projectile estimation through its carbon black pattern	Ay: 2022-23	Published
2	Dr. Pratima Manhas, Dr. Neerja Negi & Dr. Jyoti Verma	202211057636	System and Method for Remote Health Monitoring Through Internet of Things (IoT)	Ay: 2022-23	Published
3	Dr. Shobha Tyagi, Dr. Vimlesh Singh, Hanu Bhardwaj, Dr. Susmita Ray	202211072398	Biometric Attendance System And Method Thereof	Ay: 2022-23	Published
4	Dr. Abhiruchi Passi, Dr. Pratima Manhas, Sachin Lakra, Manpreet Kaur	202211069265	Electronic Voting System and Method Thereof	Ay: 2022-23	Published
5	Dr. Abhiruchi Passi, Dr. Manoj Nayak, Dr. Jyoti Pruthi, Manpreet Kaur	202211072393	Sound Enabled Polling Machine for Visually Challenged Voters and Method Thereof	Ay: 2022-23	Published
6	Dain Thomas, Vimlesh Singh, Joginder Singh, Ajit Katyar	202211072396	System and Method for Performing Multi-Agricultural Activities	Ay: 2022-23	Published
7	Parul Gandhi, Vimlesh Singh, Vijay Gill, Lokesh Bhardwaj	202211069261	Ticket Booking System Using Radio Frequency Identification (RFID) And Method Thereof	Ay: 2022-23	Published
8	Dr. Abhiruchi Passi	202211075713	Smart Mosquito Repellant Device	Ay: 2022-23	Published
9	Dr. Shruti Vahsisht, Dr. Geeta Nijhawan Dr. Parul Gandhi, Savita Sindhu, Rajkumar, Rajender Kumar	202311000200	IoT based traffic monitoring device	Ay: 2022-23	Published
10	Dr. Jyoti Verma , Kanchan Bhardwaj, Nitika Munjal, Meenakshi Gupta	202211076380	System and Method for Generating Alerts Against Infectious Diseases	Ay: 2022-23	Published
11	Dr. Geeta Nijhawan , Pronika , Parneeta Dhaliwal , Hanu Bhardwaj	202211076378	Smart Stand for Mobile Phones	Ay: 2022-23	Published
12	Dr. Abhilasha Shourie, Dr. Vimlesh Singh, Meena Kapahi	202211075723	Plant Soil Moisture Monitoring System and Method thereof	Ay: 2022-23	Published
13	Dr. Geeta Nijhawan, Asheesh Grover, Dr. Shruti Vashist	202211075717	Automated System and Method for Governing Traffic Lights	Ay: 2022-23	Published
14	Prerna Kakkar, Rajeev Kumar, Yogita Gupta, Priti Gupta	202311000810	Voice-based water dispensing system and method thereof	Ay: 2022-23	Published
15	Dr. Pratima Manhas, Monika Garg, Dr. K. Deepa, Manpreet Kaur	202311000806	Internet of Things (IoT) based intravenous (IV) fluid monitoring and alerting system and method thereof	Ay: 2022-23	Published
16	Dr. Abhiruchi Passi	202311005724	IoT Based Electric Physiotherapy Mini Muscle Stimulator	Ay: 2022-23	Published
17	Dr. Y K Awasthi	202311023305	A Device for Electromagnetic Sensing, Shielding and RCS Reduction	Ay: 2022-23	Published
18	Dr. Y K Awasthi, Yogita Khanna	202111061504	Lead-Acid battery cell reconfigurable arrangement for enhanced battery life	Ay: 2022-23	Published
19	Dr. Leena G.	202211049006	Predictive Fault Detection in Grid Connected PV system using Training Based Model	Ay: 2022-24	Published
			Total Count		
Patent Grant			0		
Patent Published			19		
Patent Filed			0		

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S.no	Name of the Teacher	Patent Number	Title of the patent	Year of Awarded/Published/Filed	Status Awarded/Published/Filed
1	Dr. Y.K Awasthi	201911031072	Microwave Sensing Device For Dielectric Characterization Of Materials	Ay: 2021-22	Published
2	Dr. Y.K Awasthi	201911031519	Compact Planar Superwideband Equal Power Divider / Combiner For Rf & Microwave Applications	Ay: 2021-22	Published
3	Dr. Umesh Dutta, Dr Nitasha Soni, Dr. Anjali Gupta	202111061512	Digital Parking Ticket	Ay: 2021-22	Published
4	Dr. Abhiruchi Passi, Dr. Ashish Grover	202111061915	Solar Time Synchronization System	Ay: 2021-22	Published
5	Dr. Pradeep Kumar, Dr. Geeta Nijhawan, Dr. Supriya P Panda	202111061917	Artificial Intelligence Based Automatic Diagnostic System	Ay: 2021-22	Published
6	Dr. Sonal Bhugra, Arko Bagchi, Dr. Jyoti Verma, Dr. Arvind Dalal	202111061913	Central Traffic Control System And Method	Ay: 2021-22	Published
7	Dr. Manoj Nayak, Dr. Suresh Kumar, Dr.Vimlesh Singh	202111061515	Smart Table	Ay: 2021-22	Published
8	Dr. Y K Awasthi, Gaurav Saxena, Priyanka Jain	202111011544	A device for Electromagnetic Absorption and Navigation	Ay: 2021-22	Published
9	Dr. Abhiruchi Passi	202241014156	A Comparative Study to Analyze the impact of Nano Materials and their energy delivery to the Solar Panels	Ay: 2021-22	Published

Total Count	
Patent Grant	0
Patent Published	9
Patent Filed	0