



Lakshmi Narain College of Technology, Bhopal

Details of Patent filed by Faculty

Session 2023-24

Sl. No.	Title of The Patent	Name of Faculty Member(s)	Patent Application No.	Status Published/Granted	Date of Publication /Grant
1.	A Nested Star Shaped Plasmonic Absorber	Dr.Mohammad Sarwar Raeen	407730-001	Published	05-02-24
2.	Midget Smart Cabinet	Dr Shravan Kumar Sable	202421004160	Published	09-02-24
3.	Frame Work For Enhancing The Performance Of The Rail Industry Using Digitalization	1.Dr. Bhanu Pratap 2. Arun Kumar Patel 3.Dr. Uma Shankar Kurmi	202221054436	Published	29-03-24
4.	Intelligent Vehicle	Dr Shravan Kumar Sable, Dr. Vijay Yadav	202421025189	Published	03-05-24



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Details of Patent filed by Faculty

Session 2024-25

S. No.	Title of The Patent	Name of Faculty Member(s)	Patent Application No.	Status Published/Granted	Date of Publication /Grant
1.	Remote-Controlled Wall-Mount Fan Axis Movement	Dr. Shravan Kumar Sable	202421055198	Published	09-08-24
2.	System and Method for Enhancing 5G Communication Performance Using Deep Learning Techniques.	Dr Sunny Kumar Jain	202421099902	Published	07-02-25
3.	FFT-BASED Signal Analysis And Efficiency Improvement In Multistage Op Amps On 0.18 μm SCMOS	Dr.Soni Changlani	202521025897	Published	04/04/2025
4.	System And Methods For Detecting Sleep Disorders Through Machine Learning Based Photoplethysmography Signal Analysis	Dr.Soni Changlani	202521033169	Published	09/05/2025
5.	IOT Enabled Sensor Network For Smart Environment Applications	1.Dr. Monika Kapoor, 2.Dr. Zahid Alam	202521037344	Published	29-05-25
6.	Frequency Analysis Of Periodic Signals Using Digital Storage Oscilloscope Without The Use Of Spectrum Analyzer	1.Dr. Monika Kapoor,2.Dr. Zahid Alam	202521051936	Published	20-06-25

Department of Electronics & Communication Engineering



Lakshmi Narain College of Technology, Bhopal

Details of Patent filed by Faculty

Session 2025-2026

S.No.	Title of The Patent	Name of Faculty Member(s)	Patent Application No.	Status Published/Granted	Date of Publication /Grant
1.	VLSI Based Intelligent control Unit For Real Time Automation System	1.Dr. Amrita Pahadia, 2.Dr.Govind Prasad Pandiya	202521055519A	Published	04-07-25
2.	AI-Integrated Mechanical Gripper System For Human-Robot Collaboration In Industry 5.0 Environments	Jatin Agarwal	202521069422 A	Published	01-08-25
3.	Mobile Workforce Assignment Optimization Using Genetic Algorithms And Simulated Type-2 Fuzzy Skill Matching	1. Vinod Kumar Pathak 2.Sourabh Pandey 3.Dr. Uma Shankar Kurmi,4. Ravi Bhusan Roy,	202521056292 A	Published	08-08-25
4.	Ant Colony Optimization and LSTM-Based Hybrid System for Solar PV Array Reconfiguration	1. Prof. Arun Kumar Patel, 2. Dr. Vinod Kumar Pathak	202521074979	Published	15-08-25
5.	A Flared Yagi Antenna With Tilted Directional Beam Pattern For L Band Application	Dr.Mohammad Sarwar Raeen	437813-001	Published	09-09-25
6.	Modular Mechatronic Interface For Seamless Human-Machine Collaboration In Industry 5.0 Manufacturing Units	1. Jatin Agrawal 2.(Dr.) Rakesh Agarwal 3. Sourabh Pandey, 4. Dr. Uma Shankar Kurmi	1202521082967A	Published	19-09-25



Lakshmi Narain College of Technology, Bhopal

7.	Smart Sleep Mode Algorithm For 5g Small Cell Based On Predictive Traffic Analysis	1.Dr Sunny Kumar Jain,2.Dr Vijay Yadav	202521072762A	Published	03-10-25
8.	A Cloud Integrated IOT Energy Management System For Smart Homes And Smart Cities With Adaptive Demand Response.	Nitesh Kumar	202521099781A	Published	14-11-25
9.	Smart Antenna-Based Communication System For Interference Reduction In Dense Networks	1.Dr. Zahid Alam 2. Dr. Monika Kapoor	202521125241 A	Published	23-01-26
10.	A Self-Adaptive System for Real-Time Load and Stress Optimization in Industrial Equipment	1.Dr. M Zahid Alam, 2.Jatin Agarwal,3.Dr. Rakesh Agrawal	202621009153	Published	13-03-26
11.	IOT- Based Smart Storage And Wear house Monitoring System	1.Dr.Soni Changlani 2. L N. Gahlod 3. Tarun Verma 4. Vijay Yadav	202521133278	Published	10-04-26