

KPR Institute of Engineering and Technology

Department of Electrical and Electronics Engineering



DETAILS OF PATENTS PUBLISHED/ GRANTED

02/07/25

ACADEMIC YEAR 2024-2025

List of Patents Granted

S. No	Title of the Patent	Faculty Name	Month & Year of Publication	Publication Number
1	Optimized mechanism for piece extraction for power loom	Mr.Vignesh C J	January 2024	503211

List of Patents Published

S. No	Title of the Patent	Faculty Name	Month & Year of Publication	Publication Number
1	Design of Single Axis Servo Mechanism for Conveyor Control	Dr.Parimala V	August 2024	202441053583
2	A Method and System for Electric Power Demand Management and Energy Conservation Using Predicted Electric Power Profile	Dr.Chandrika V S	January 2025	202441100643
3	Machine Learning-Based Real-Time Air Quality Prediction System for Urban Environments Using IoT Sensors and Deep Learning Models	Dr.Saravanan G	December 2024	202431093291

4	Predictive model deep learning driven forecasting for photovoltaic power generation	Dr. Karthick A Dr. Baranilingesan I	November 2024	202441089355
5	Enhancing water quality prediction with hybrid deep learning and metaheuristic optimization techniques	Dr. Baranilingesan I Dr. Karthick A	November 2024	202441089429
6	AI Integrated Design of Multi Axis Servo Mechanism for Smart Invigilation	Dr.Parimala V	November 2024	202441081865 A
7	Three-Level Neutral Point Clamped (NPC) Inverter with Adaptive Multi-Mode PWM Control	Dr.Mohamed Ibrahim A	December 2024	202431096105
8	Smart home security system	Ms.Lalitha B	January 2025	202541000594
9	Real Time Fault Identification in Electric Vehicle Power Trains Using Adaptive Neuro Fuzzy Interface	Dr.Baranilingesan I	November 2024	202441086696
10	Seamless Energy Management in Python-Controlled Hybrid Wind-Solar Power System	Dr.Baranilingesan I	January 2025	202541002036
11	Deep Learning Solutions for Detecting Foot Ulcer Severity and Amputation Diagnosis	Ms.Lalitha B	December 2024	202441096034
12	Three-Phase Frequency-Adaptive Digital Phase-Locked Loop for Enhanced Power System Measurement, Control, and Protection	Dr.Pazhanimuthu C	April 2024	202541028842 A
13	Axial flux motor controller	Mr.Vignesh C J	May 2025	202541029767
14	Moisture content measurement in cotton bales with digital data,	Mr.Vignesh C J	May 2025	202541038565
15	A cost-effective robotic solution for marine plastic waste collection	Dr.Pandiyan P	May 2025	202541039342
16	IoT Integrated demand side response in microgrid	Ms.Revathi R	May 2025	202541037226

17	Efficiency enhancement in smart grid using computational intelligence techniques	Ms.Revathi R	May 2025	202541038592
18	DC grid voltage regulation for renewable sources using machine learning	Ms.Revathi R	May 2025	202541039846


HOD/EEE