

**Velammal College of Engineering and Technology, Madurai – 625 009**

**(Autonomous)**

**Patents Details**

**Department of Electrical and Electronics Engineering**

**Academic Year 2024-2025**

<b>S. No</b>	<b>Categories (Design/Utility)</b>	<b>Title of the Invention</b>	<b>Application Number</b>	<b>Filling Date</b>	<b>Date of Publication</b>	<b>Status</b>
1	Design	Advanced Electrical-Precision Measurement Device Architecture	436836-001	08.11.2024	17.01.2025	Published
2	Design	Reversible Fuel Cell Device	437672-001	12.10.2024	18.11.2024	Published
3	Utility	Electric Vehicle Power Converter for Enhanced Efficiency and Performance	202441083966	04.11.2024	15.11.2024	Published
4	Design	Design and Development of Automated Attendance management system Based on face recognition	202441077470A	12.10.2024	25.10.2024	Published
5	Design	Solar wireless Electric Vehicle charging station	422990-001	12.07.2024	21.08.2024	Published
6	Design	Industrial IoT based Smart Locking Unit	409759-001	08.03.2024	06.07.2024	Published

**Academic Year 2023-2024**

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1	Design	Solar Powered Charging Station For Electrical Vehicles	406645-001	05.02.2024	18.04.2024	Published
2	Patent	Solar powered Automatic Dual Smoke extractor	502037	21.04.2023	23.01.2024	Published
3	Utility	Implementation Of An Arduino Multi-Node Solar -Powered BLE Sensor For Monitoring Humidity and Temperature	202341088526 A	23.12.2023	19.01.2024	Published
4	Utility	“The Direct Projection Of Solar Irradiation For The Electric Vehicle Smart Charging Plan To Increase Photovoltaic (PV) Self-Consumption at Home”	202341089035A	27.12.2023	12.01.2024	Published
5	Design	5G Antenna for wireless communication	418719-001	06.01.2024	08.01.2024	Published
6	Utility	Method for revitalizing and swapping modulated battery packs using machine learning model for electrical vehicles	202241063466 A	07.09.2023	18.11.2023	Published
7	Utility	Fifth Generation (5g) Based Firefighting Drone	202341062974 A	19.09.2023	06.10.2023	Published
8	IPR JOURNAL	System for Rapid Diagnostic of Novel Coronavirus Pneumonia based on AI	202341016197	24.03.2023	03.10.2023	Published

**Academic Year 2022-2023**

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1	Design	IoT Based Automated Rail Track Inspection Trolley	378952-001	09.02.2023	04.05.2023	Published
2	Design	Solar powered mobile phone recharger for two wheeler	376540 -001	23. 02.2023	03. 05.2023	Published
3	Utility	System For Artificial Intelligence-Based Transceiving Signal In 6G Wireless Communication Network	202341019163 A	21.03.2023	31.03.2023	Published
4	Design	Device for detection of System Malware	390738-001	07.02.2023	15.03.2023	Published
5	Utility	“Mobile Medical Emergency System based on Blockchain and 5G Communication”	202341007935	07.02.2023	24.02.2023	Published
6	Utility	Method for revitalizing and swapping modulated battery packs using machine learning model for electrical vehicles	202241063466 A	07.11.2022	18.11.2022	Published

**Academic Year 2020-2021**

<b>S. No</b>	<b>Categories (Design/Utility)</b>	<b>Title of the Invention</b>	<b>Application Number</b>	<b>Filling Date</b>	<b>Date of Publication</b>	<b>Status</b>
1	Patent design	Automatic water sprinkling system for plants with soil moist sensing camera –	337196-001	05.01.2021	05.02.2021	Published
2	Patent design	Patent design Automatic solar fertilizer sprinkler	337059-001	31.12.2020	22.01.2021	Published