

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

**(Autonomous)**

**Patents Details**

**Department of Electronics and Communication 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>Filing Date</b>	<b>Date of Publication</b>	<b>Status</b>
1.	Design	AI Based controlling device for smart Appliances	420711-001	20/06/2024	30/07/2024	Granted
2.	Design	Battery Management system for Electric Vehicles with real time monitoring system	420832-001	21/06/2024	09/08/2024	Granted
3.	Design	Control Device For Autonomous Vehicles	417396-001	19/05/2024	07/10/2024	Granted
4.	Design	Bubbler Based Fertigation System	421525-001	28/06/2024	14/05/2025	Granted
5.	Utility	A Novel Forest Fire Detection System Using Wireless Sensory Networks	202441062373A	17/08/2024	23/08/2024	Published
6.	Utility	Intelligent Path Travel Cost Estimation In Large-Scale Networks Using Advanced Machine Learning	202441064131 A	26/08/2024	30/08/2024	Published
7.	Design	Solar Powered Garden Bed	419269-001	07/06/2024	12/06/2025	Granted
8.	Design	Iot Based Nutrient Sprinkler	433012-001	07/10/2024	23/12/2024	Granted
9.	Design	Microstrip Notch Patch Antenna	436682-001	07/11/2024	28/01/2025	Granted

10.	Utility	A System For Data Aggregation & Joint Energy Optimization Through M/C Learning For Resource Constrained Iot Devices In Implementing Efficient Data Communications.	202441062418A	19/08/2024	30/08/2024	Published
11.	Utility	A System For Leveraging Discontinuous Reception & Spatial Diversity For Effective Path Loss Reference Signal Update & Overhead Reduction In Wsn Multimedia Traffic.	202441062416A	19/08/2024	30/08/2024	Published
12.	Utility	A system of Powering the Edge : leveraging energy harvesting techniques for sustainable wire sensor Networks in low power WAN deployments	202441062415A	19/08/2024	30/08/2024	Published
13.	Utility	AI Powered Unmanned Aerial Vehicle(UAV) for Persistent aerial surveillance in military zones	202441068072	09/09/2024	13/09/2024	Published
14.	Design	Foldable Walking Chair Stick for Orthopaedic Patient	425667-001	02/08/2024	07/11/2024	Granted
15.	Design	Smart Powered Garden bed	419269-001	07/06/2024	12/06/2025	Granted

**Academic Year 2023-2024**

<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.	Utility	Textile Based Microstrip Patch Antenna Integrated with Metasurface and Electromagnetic Band Gap	202341047441 A	14/07/2023	22/09/2023	Published
2.	Utility	System for Currency Recognition and Counterfeit Detection for Visually Impaired Individuals	202341047183	13/07/2023	22/09/2023	Published
3.	Utility	System and Method for Detecting Plant Diseases Using Drone-Borne Multispectral Cameras & Deep Learn	202341047465 A	14/07/2023	22/09/2023	Published
4.	Utility	AyurPulse-An AI based Ayurvedic Wrist Pulse Monitoring Device	202341049076	20/07/2023	01/09/2023	Published
5.	Utility	Neonatal Smart Health Monitoring System	202341046787 A	12/07/2023	22/09/2023	Published
6.	Utility	Optical Filters for Polymers Identification and Sorting using NIR Reflectance Spectrum	202341047193 A	13/07/2023	22/09/2023	Published

**Academic Year 2022-2023**

<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.	Utility	An IoT platform for Intelligent Health Monitoring and its Application in the context of COVID'19	202241064986	14-11-2022	18-11-2022	Published

2.	Utility	A Music Selection System Based On Facial Recognition With Wireless Communication And Means	202341008230	08/02/2023	24/02/2023	Published
3.	Design	Apparatus for Healing Diabetic Foot Ulcer	386423-001	-	17-05-2023	Granted
4.	Design	Device for Monitoring the color & Texture of Samples	358553-001	-	14-02-2022	Granted
5.	Design	Automatic Fire Sensing And Extinguishing Robot	356802-001	-	16/01/2022	Granted
6.	Design	Microwave Sensor based Soil Analyzer	377763-001	-	21-01-2023	Granted

#### **Academic Year 2021-2022**

<b>S. No</b>	<b>Categories (Design/Utility)</b>	<b>Title of the Invention</b>	<b>Application Number</b>	<b>Filing Date</b>	<b>Date of Publication</b>	<b>Status</b>
1.	Design	A Multilayer Gate Metal oxide Semiconductor FET for reducing Short Channel Effect	202041019570	08-05-2020	21-12-2021	Granted

#### **Academic Year 2020-2021**

<b>S. No</b>	<b>Categories (Design/Utility)</b>	<b>Title of the Invention</b>	<b>Application Number</b>	<b>Filing Date</b>	<b>Date of Publication</b>	<b>Status</b>
1.	Design	Kitchen Items Cleaning and	2020101948	-	16/09/2020	Granted

		Disinfecting Device using Water and UV Light				
2.	Design	A CNN Based Model for Disease Classification using High Temporal and Spatial Resolution Images of Simultaneous EEG-MRI	2020103304	-	23/12/2020	Granted

**HoD/ECE**