



## School of Electrical and Communication Department of Electronics and Communication Engineering

### Details of Patent(s) During Assessment Period 2024-2025

S. No.	Inventor(s) Name	Title of the Patent/Product	Application Number	Approval Status	Date of Publication / Grant
1	Dr. Selwin Mich Priyadharson A	A Wearable Device to Assist Blind and Visually Impaired People on Indoor and Outdoor Environments	202241042730	Granted	05.07.2024
2	Dr. Helina Rajini Suresh	Machine Learning based Security Device for Wireless Communication	425121-001	Granted	03.09.2024
3	Dr. Arun C A	IoT Based Lead Acid Battery Monitoring System- Granted	202241052790	Granted	11.09.2024
4	Dr. Jency Rubia J	A Novel Implementation of RLNS on Fixed-Width Multiplier	541526	Granted	06.12.2024
5	Dr. Balaji L	A Method to Detect Lameness in Dairy Cows using Computer Vision and Deep Learning Model	202441050476	Published	05.07.2024
6	Dr. Prasanna R	IoT Based On-Site Development of Electrochemical Activated Water as Disinfectant	202441047333	Published	05.07.2024
7	Dr. Remya R, Dr. Josephine Pon Gloria J, Dr. Shahnaz, Dr. Ferlin, Dr. Sheela, Dr. Subha K J, Dr. Senkumar, Dr. Anto Bennet M	UWB Antenna for Imaging Applications with Dual Filters	418564-001	Published	19.07.2024
8	Dr. Sasikala G	Adaptive Sensor Networks for Machinery Health Monitoring	202441054720	Published	02.08.2024
9	Dr. Anandan M	AI Based Controlling Device for Smart Appliances	420711-001	Published	02.08.2024



10	Dr. Aloy Anuja Mary G, Dr. Prabha M, Dr. Aanandha Saravanan K, Dr. Sathyasri B, Dr. Muthukumaran D, Dr. Bhuvaneswari C, Dr. Purushothaman K E	Wireless Communication and Machine Learning for Advanced Smart City Lighting Solutions	202441064895	Published	06.09.2024
11	Dr. Arun C A	Smart Dual Channel RTOS Based Thermostat using ESP32	202441069094	Published	20.09.2024
12	Dr. Arun C A	IoT Enabled Self Powered Sensor Connectivity Gateway with LoRa And 4G for Industry 4.0 Applications	202441072972	Published	04.10.2024
13	Dr. Arun C A	Sense Bridge 4.0 IoT Gateway for Reliable Multi-Sensor Communication and Data Transfer	202441072973	Published	04.10.2024
14	Dr. Ferlin Deva Shahila D, Dr. Ashwini A, Dr. Nalini N, Dr. Rosi A, Dr. Vaishnavi T	Intelligent Traffic Light Control System using IoT Technology and Ambulance Priority Control	202441072969	Published	04.10.2024
15	Dr. Ferlin Deva Shahila D, Dr. Ashwini A, Dr. Nalini N, Dr. Rosi A, Dr. Vaishnavi T	Smart Driver Assistance using Deep Learning and Raspberry PI PICO for Real Time Drowsiness Detection	202441072965	Published	04.10.2024
16	Dr. D. Ferlin Deva Shahila, Dr. Ashwini. A, Dr. Nalini N, Dr. Rosi A, Dr. Vaishnavi T	Detection Driven by IoT Strategies for Landslip Early Warning Systems' Monitoring And Prediction	202441072970	Published	04.10.2024



17	Dr. T. Kavitha, Dr. D. Rajesh Kumar	A Novel Improved Front to Back Ratio and Minimum SAR Two- Element Antenna for Wearable Devices	202441072967	Published	04.10.2024
18	Dr. K. A. Karthigeyan	System for On-Site Detection of Microplastics in Aqueous Medium using RF Sensor	202441082589	Published	01.11.2024
19	Dr. D. Ferlin Deva Shahila, Dr. Ashwini. A, Dr. Nalini. N, Dr. Rosi A, Dr. Vaishnavi T	Smart Toll System for Intelligent Transportation System (ITS)	202441081391	Published	06.11.2024
20	Dr. David Neels Ponkumar D	Synthesis of Iron Nanoparticles using Jujube Leaf Extract for Dye Effluent Remediation	202441084520	Published	08.11.2024
21	Dr. Ezhilazhagan C	Pentagon-Shaped RF Coil Design with Iterative Fractal Patten for MRI Diagnosis System	430135-001	Published	08.11.2024
22	Dr. Sankar M	Machine Learning Algorithm for Real-Time Image Processing	202441091558 A	Published	29.11.2024
23	Dr. Sankar M	Smart Home Energy Management System using IoT Technology	202441090159 A	Published	29.11.2024
24	Dr. Sankar M	Iot-Enabled Environmental Monitoring and Pollution Control System	202441091287 A	Published	29.11.2024
25	Dr. Sankar M	Safety and Security Enhancement in Smart Cities Through AI- IoT Integration	202441091290 A	Published	29.11.2024
26	Dr. Sankar M	Wireless Sensor Networks for IoT Enabled Structural Health Monitoring	202441090161 A	Published	29.11.2024