



School of Electrical and Communication

Department of Electronics and Communication Engineering

Details of Patent(s) During Assessment Period 2023-2024

S. No.	Inventor(s) Name	Title of the Patent/Product	Application Number	Approval Status	Date of Publication / Grant
1	Dr. Selwin Mich Priyadharson A	Design of Automatic Sprinkler for Multi Applications based on Wireless Sensor Network (WSN)	201741015396	Granted	29.12.2023
2	Dr. Britto Pari J	Ferrous and Nonferrous Waste Sorting Machine	6321754	Granted	11.06.2023
3	Dr. David Neels Ponkumar D	Wireless Network Intrusion Detection Device	6302807	Granted	21.08.2023
4	Dr. Arun M R	UHD Video Compression using Hybrid Transform DTT-DWT	201841036633	Granted	11.10.2023
5	Dr. Prasanna R	Customization of Cow-Bull Horn based Biomimicry Antenna Designs for Near and Far Field Applications	201741005898	Granted	30.10.2023
6	Dr. Prasanna R	Desalination Process using Capacitive Deionization	201641018077	Granted	22.12.2023
7	Dr. Rajkumar R	Automated Medicine Box	201841038781	Granted	26.02.2024
8	Dr. Prasanna R	A Compact Unidirectional Graphene based Array Antenna with Efficient Phase Optimized Feeding Structure	202141052733	Granted	01.03.2024
9	Dr. Prasanna R	Graphene based Screen Printed Antenna on Flexible Substrates for Wireless Energy Harvesting Applications	202141044586	Granted	22.03.2024
10	Dr. Jana S	Internet of Things Based Automated Pill Dispenser	405600-001	Granted	28.03.2024



11	Dr. Prasanna R	Design of Power Gated Double Edge Triggered Flip Flop using Sleep Transistor Technique (PG-STDETFF) for Low Power Clocking System	201741000167	Granted	26.04.2024
12	Dr. Anish Pon Yamini K	Method for Real-Time Analysis and Visualization of Big Data using Matrix Factorization	202341035013	Published	18.08.2023
13	Dr. Anto Bennet M Dr. Josephine Pon Gloria J, Dr. Shahnaz K V, Dr. Manimaraboopathy S Dr. Arun M R	Agriculture Drone for Monitoring and Spraying Pesticides	389044-001	Published	23.08.2023
14	Dr. Helina Rajini Suresh	IoT System for Addressing Homelessness Employing Big Data Analytics	202341037758 A	Published	29.09.2023
15	Mr. Vijay Albert William	Dynamic Wireless Charging System for an Electric Vehicle used in Highway Transportation	202341058825	Published	06.10.2023
16	Dr. Bhuvaneswari P	IoT - Based System for Real Time Monitoring and Remediation of Industrial Effluents Effects on Barli and Oats	2023410650708	Published	13.10.2023
17	Dr. Prithivirajan V	Pen (With Light Source to Read the Written Text)	388055-001	Published	25.10.2023
18	Dr. Sreelakshmy R	Smart City Quality Analysing Device	395656-001	Published	26.10.2023
19	Dr. Gnanaprakash V	Industrial Pollution Measurement Device	393778-001	Published	30.10.2023
20	Dr. Manimaraboopathy S	Diffusion Model for Molecular Docking For 4'-Hydroxy-3'- Methoxy Acetophenone within formation from Quantum Approximate Optimization	202341075935	Published	07.11.2023



21	Dr. David Neels Ponkumar D	IoT Enabled Device for Human Body Mass Index (BMI) Measurement in Hospital	2.02341E+11	Published	17.11.2023
22	Dr. Beulah Jackson	Intrusion Detection Device for Agricultural Field (5G and AI Based)	390737-001	Published	21.12.2023
23	Dr. Venkataramanai ah B	Efficient Cardiovascular Disease Identification by Machine Learning	202341079321	Published	22.12.2023
24	Dr. Harikrishna Paik, Dr. Bikash Ranjan Behera	A Single Coaxial Probe-Fed Circular Polarization Reconfigurable Patch Antenna for GPS Satellite Systems	202341079322	Published	22.12.2023
25	Dr. Arun C A	Low Cost IoT based Single Phase Energy Meter Using ADE7753	202341080081	Published	22.12.2023
26	Dr. R. Prasanna	Graphene Based Adaptable Frequency Stack Antenna with Common Ground for Cognitive Radio Application	202341088765	Published	22.12.2023
27	Dr. G. Aloy Anuja Mary	Smart Pendrive	398940-001	Published	29.12.2023
28	Dr. Arun C A	IoT Enabled Low Cost Three Phase Energy Meter using ADE7758	202341087967	Published	12.01.2024
29	S. Vijayalakshmi	Devising IoT Based Healthcare Medical Container for Transportation of Organs and Healthcare Products	202341087966	Published	12.01.2024
30	Dr. Prasanna R	Customisation of Graphene-Based Coagulated Composites for Electronic Printing Applications: A Novel Eco-Friendly Waste to Wealth Formulation	202341089378	Published	12.01.2024
31	Dr. David Neels Ponkumar D	FPGA based Smart Assist Virtual Doctors in Medic Apps with Basic Medical Information about & NBST, THE & NBSP PAT	202341073234	Published	12.01.2024
32	Dr. David Neels Ponkumar D	Automated Technology to Ensure the Cleanliness of Garbage Management and Classification of Dry and Wet Waste	202341073245	Published	12.01.2024



33	Dr. Dasari Naga Vinod	Heuristic Neural Network Algorithm Development for the Prediction of Undersea Ocean Parameters	202441001280	Published	09.02.2024
34	Dr. Prasanna R	Development of a Novel Indigenous, Low-Cost, Plant-Source- Derived Carbon Black: “Lampblack”: Synthesis, Characterization, Performance Analysis, and it's Implementation for Electrical, Optical, and Thermal Device Applications	202441012248	Published	21.02.2024
35	Dr. Arun C A	IoT Thingsboard Enabled Smart Position Identification System for Industrial Accessories Monitoring Specification	202441011152	Published	08.03.2024
36	Dr. Prasanna R	Customization of Lampblack–Epoxy Coagulated Composites for Thermo-Absorptive-based Mitigation of Bisphenol-A Leaching from Plastic Containers: Tailoring of Waste to Wealth Resource For Sustainable, Environmental Protection, Clean Water, And Health Safety Applications	202441016650	Published	22.03.2024
37	Dr. Mazher Iqbal J L	Efficient VLSI Design for Low-Power Digital Signal Processing Applications with Power Electronics Integration	202441015675	Published	22.03.2024
38	Dr. Prasanna R	A Novel Four-Step Procedure for the Wear and Tear Analysis of Carbon–Adhesive-Binder Multifunctional Composites	202441018441	Published	29.03.2024
39	Dr. Venkataramanai ah B	IoT based Real-Time Virtual Doctor Model for Human Health Monitoring	202441021501	Published	29.03.2024
40	Dr. Rahul S G	Smart Wearable Health Monitoring System	202441021502	Published	29.03.2024
41	Dr. Vijayalakshmi S	A Low-Cost Non-Contact based Angulation Measurement Device	202441027623	Published	12.04.2024



42	Dr. Arun C A	IoT-Based Low Power Low-Cost Occupancy Detection and Reporting System	202441027625	Published	12.04.2024
43	Dr. Koushick Venkatesh, Dr. Arun C A	DRIVANI – An Augmentative and Alternative Communication Device used to Communicate for Physically Impaired People	202441027621	Published	12.04.2024
44	Dr. Ashwini. A, Dr. Nalini N, Dr. Rosi A, Dr. Vaishnavi T, Dr. Ferlin Deva Shahila D. Dr. M. Sathesh D.	Development of an Optimized Smart Plant Disease Monitoring and Classification System for Hydroponic Dracaena Trifasciata	202441027622	Published	12.04.2024
45	Dr. Prasanna A	Characterization of a Novel Charcoal Material Synthesized from Abundantly Available and Accessible Parts of Neem (Azadirachta Indica) Tree: A Potential Raw Material For Printed Electronics, Optical, And Thermal Applications	202441030048	Published	26.04.2024
46	Dr. Vijayalakshmi A	A Low Cost Portable Occluso-Bitemetre for Bite Force Measurement	202441030518	Published	26.04.2024
47	Dr. Ferlin Deva Shahila D, Dr. M. Sathesh D, Dr. Ashwini A, Dr. Nalini. N, Dr. Rosi A, Dr. Vaishnavi T	Internet Of Things (IoT) Infused Dashboard System for Automobiles	202441030047	Published	26.04.2024
48	Dr. Prasanna R	Fabrication of Metal-Free Electronic Structures via Tailored Graphene Material using Screen Printing Approach	202441030049	Published	26.04.2024



49	D, Dr. Sathesh M, Dr. Ashwini A, Dr. Nalini N, Dr. Rosi A, Dr. Vaishnavi T, Dr. Ferlin Deva Shahila	Ensuring Off-Road Vehicle Safety with Rollover Depth Guidelines Using HC-SR Ultrasonic Sensor and ESP32	202441035271	Published	03.05.2024
50	Dr. R. Prasanna	3D Printing Approach for the Fabrication of Customized Graphene-Based Metal-Free Electronic Structures	202441034515	Published	10.05.2024
51	Dr.D. Ferlin Deva Shahila & Dr. Ashwini A	IoT-Based Solar Tracking Systems: Harnessing Intelligent Technology for Enhanced Solar Efficiency	202441034516	Published	10.05.2024
52	Dr. Rosi A, Dr. Vaishnavi T, Dr. Ferlin Deva Shahila D, Dr. Sathesh M, Dr. Ashwini A, Dr. Nalini N	Enhanced Basement Air Quality System with Hazard Alert Functionality using MQ2 Sensor and ESP32 Microcontroller	202441039717	Published	31.05.2024
53	Dr. Nalini. N, Dr. Rosi A Dr. Vaishnavi T, Dr. Ferlin Deva Shahila D, Dr. Sathesh M, Dr. Ashwini A	Modelling of Dual Type Syringe Infusion Pump Control System using Fopid Controller	202441040778	Published	31.05.2024
54	Dr. Vaishnavi T, Dr. Ferlin Deva Shahila D, Dr.Sathesh M., Dr. Ashwini. A, Dr. Nalini. N, Dr. Rosi.A	Smart Cattle Health Monitoring System using Deep Learning	202441040776	Published	31.05.2024



55	Dr. Ashwini A, Dr. Ferlin Deva Shahila D	Development of a Riverguard Bluetooth-Empowered Arduino System for River Health Monitoring and Cleanup	202441040779	Published	31.05.2024
56	Dr. Arun C A	IoT Enabled Three Phase Smart Electrical Consumption Monitoring System using ADE9000	202441042484	Published	07.06.2024
57	Dr. Arun C A	IoT Enabled Energy and Power Quality Monitoring for Industry 4.0 using ADE7880	202441042483	Published	07.06.2024
58	Dr. Prasanna R	Non Invasive Vein Detection and Visualization using High Intensity Led Illumination.	202441042702	Published	14.06.2024
59	Dr. Arun C A	IoT-Based Temperature Monitoring & Data Visualization System for Cold Storage	202441045221	Published	21.06.2024
60	Dr. Sasikala G	Arogya Nethra - Remote Health Monitoring Systems	202441043960	Published	21.06.2024