

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

YEAR-WISE PATENT DETAILS

ACADEMIC YEAR	FILED	PUBLISHED	GRANTED	TOTAL (FILED + PUBLISHED + GRANTED)
2025-2026	10	06	18	34
2024-2025	***	09	18	27
2023-2024	***	69	14	83
2022-2023	***	35	10	45
Grand Total	08	119	52	179

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

PATENT DETAILS

S. N o.	Patent Application Number & Filing/ Publication Date	Title of the Invention	Name of the Applicant	Status of Patent
2025 - 2026				
1	202025104369 Date of filled: 28/07/2025 Granted Date: 18/08/2025	A system for producing biogas and enriched nutrients from organic manure	Dr.K.Sheikdavood	Granted
2	202025104371 Date of filled: 28/07/2025 Granted Date: 19/08/2025	Portable, non-invasive eye pressure monitoring device	Dr.S.Jegadeesan, Dr.P.Jeyakumar	Granted
3	202025104377 Date of filled: 28/07/2025 Granted Date: 18/08/2025	System for cleaning solar modules using electromagnetic waves	Dr.S.Jegadeesan, Dr.P.Jeyakumar	Granted
4	2025/06318 Granted Date: 25/03/2026	A flexible metamaterial based wearable suit for absorbing radar waves	Dr. Jegadeesan Subramani; Dr. Jeyakumar Pitchaikani	Granted
5	2025/06319 Granted Date: 25/03/2026	An integrated system for monitoring and controlling the operations of a wheelchair	SHEIKDAVOOD KAITHBEER	Granted
6	2025/06320 Granted Date: 25/03/2026	A toroidal structure based transmitter and receiver coil for wireless charging system	Mrs. Ramya Nallusamy	Granted
7	2025/06321 Granted Date: 25/03/2026	A smart navigation system for GPS denied areas	Dr. Jegadeesan Subramani; Dr. Jeyakumar Pitchaikani	Granted
8	2025/06323 Granted Date: 25/03/2026	A system for regulating temperature of the nests to increase the hatching ratio	SHEIKDAVOOD KAITHBEER	Granted
9	2025/06387 Granted Date: 25/03/2026	A method of preparation of biodegradable bottle from dry leaves	Kavitha Shanmugam	Granted
10	580145 Date of filled:12/10/2023 Granted Date: 06/02/2026	A System for Organ Storage and Method Thereof	Dr. Jeyakumar Pitchaikani	Granted
11	202541116379A Date of filled:24/11/25 Publication Date: 12/12/2025	Analyze and Predicting Stock Price Direction Using Support Vector Machines, Random Forest, Artificial Neural Networks	M. Sentamilselvi	Published
12	202541066743A Date of filled:13/07/25 Publication Date: 25/07/2025	A System and Method for Tokenized Supply Chain Management Using IOT and Blockchain Technologies	Dr.S.Vimalnath	Published
13	202541080504A Date of filled:25/08/25 Publication Date: 05/09/2025	A Power-Optimized VLSI Framework for Edge AI Inference in IoT-Base Smart Devices	M.Dharani Devi	Published

14	202541077647A Date of filled:14/08/25 Publication Date: 17/10/2025	Real-Time air Pollution Monitoring in Smart Cities Using an IOT and Machine Learning-Based Framework	P.Ramakrishnan	Published
15	202521076477A Date of filled:11/08/25 Publication Date: 17/10/2025	Integrative Ayurvedic Management of Chronic Kidney Disease Panchakarma and ML-Based predictive analytics	E.Dinesh	Published
16	202641000551A Date of filled:03/01/26 Publication Date: 16/01/2026	Machine Learning-Enabled IoT System for Intelligent Intrusion Detection and Cybersecurity	Dr.S.Vimalnath	Published
17	202541104588	A Portable PPG Foot Scanner for Early pad and Diabetes Foot Detection	Ms.M.Saranya	Granted
18	202541104595	A Cognitive Communication System for Coma Patients	Dr.T.L.Kayathri	Granted
19	202541104589	A Wearable Cardioverter Defibrillator System for Elderly people	Dr.P.Jeyakumar	Granted
20	202541104590	A Mine Rover Device	Ms.S.Kavitha	Granted
21	202541104594	A Method for Producing Carbon-Sequestering Construction Bricks	Dr.S.Sivaranjani	Granted
22	202541104596	A Smart Plasma Patch System for Wound Healing	Dr.S.Sivaranjani	Granted
23	202541104593	A Wastewater Management System	Dr.S.Sivaranjani	Granted
24	202541104592	Urinary Biomarker Capsule	Dr.S.Jegadeesan	Granted
25	202541110742	A HIGH GAIN LENS ANTENNA SYSTEM FOR ULTRA FAST 6G WIRELESS BACKHAUL NETWORKS	Dr.P.Jeyakumar	Filed
26	202541110746	A CONTACT LENS SENSOR SYSTEM FOR REAL-TIME INTRAOCULAR PRESSURE MONITORING	Dr.P.Jeyakumar	Filed
27	202541110744	A NON-INVASIVE TECHNIQUE BASED INFANT HEALTH MONITORING SYSTEM	Dr.K.Karthikeyan	Filed

28	202641061787	AI OPTIMIZED HYBRID ENERGY MANAGEMENT SYSTEM FOR AUTONOMOUS DRONE	Dr.S.Meivel	Filed
29	202641061796	TOXIN DETECTION SYSTEM IN EDIBLE OIL USING MICROWAVE SENSOR	Dr.K.Karthikeyan	Filed
30	202641061801	A DYNAMIC BATTERY CELL ISOLATION AND SEAMLESS POWER SYSTEM	Dr.K.Sheikdawood	Filed
31	202641061799	SMART WIRELESS SIGNAL MONITORING AND MAPPING SYSTEM	Dr. N. MAHENDRAN	Filed
32	202641061789	A FLEXIBLE MULTI-LAYER METAMATERIAL STEALTH SYSTEM FOR RADAR AND INFRARED SIGNATURE REDUCTION	Dr.P.Jeyakumar	Filed
33	202641061797	AN ONION STORAGE SYSTEM	Dr.S.Jegadeesan	Filed
34	202641061790	SMART FIRE SURVIVOR DETECTION SYSTEM	Mr.L.Ramesh	Filed

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PATENT DETAILS

S. N o.	Patent Application Number & Filing/ Publication Date	Title of the Invention	Name of the Applicant	Status of Patent
2024 - 2025				
1	202441054615 Date of filled:17/07/2024 Publication Date: 02/08/2024	Curriculum Opportunities for computational thinking and Machine Learning in Mathematics	Dr.R.Rajesh Kanna	Published
2	202421062338 Date of filled:17/08/2024 Publication Date:30/08/2024	Integrated Telemedicine Platforms for remote patient diagnosis and treatment using Advance AI and IoT Technologies	Dr.R.Rajesh Kanna	Published
3	417396-001 Date of filled:19/05/2024 Granted Date :07/10/2024	Control Device for Autonomous Vehicles	Mr.T.Sivakumar	Granted (Design India)
4	202441075653A Date of filled :17/10/2024 Publication Date:18/10/2024	Integration of Artificial Intelligence in EFL Learning of Higher Education to Understand and the Perspectives of Teachers and Learners	Dr.E.Dinesh	Published
5	6411404 Publication Date:16-12-2024 Granted Date :19-12-2024	Sensor Based Security Device Embedded with Cloud Connectivity	Dr.E.Dinesh	Granted (UK Design)
6	202541001618A Date of filled :07/01/2025 Publication Date:10/01/2025	Machine Learning – Enabled Wireless Communication Networks	Dr.A.Sridevi	Published
7	6413753 Registration Date :25-12-2024 Granted Date :06-01-2025	Sensor Based Security Device Embedded with Cloud Connectivity	Dr.S.Vimalnath	Granted (UK Design)
8	202541015498A Date of filled :22/02/2025 Publication Date:07/03/2025	Miniaturized Meander- Line Microstrip Antenna for Sub-1GHz Wireless Applications	Dr.A.Kavitha	Published
9	560725 Publication Date:20/06/2019 Granted Date :20/02/2025	An Internet of Things Based Agricultural Sensor System	Dr.S.Meivel	Granted (Utility Indian)
10	435923-001 Registration Date :28/10/2024 Granted Date :29/01/2025	Block chain Based Medical Data Storage Cloud Device	Dr.K.Sheikdavood	Granted (Design)
11	202541018130 A Date of filled :28/02/2025 Publication Date:14/03/2025	Machine Learning and Image Processing for Plant and Disease detection to improve agricultural Yield	Dr.P.Ramakrishnan	Published
12	6365142 Date of filled : 09/05/2024 Granted Date :19/07/2024	Smart Covid Testing Kit with Digital Display	Dr.P.Sakthi	Granted (UK Design)
13	2024/06619 Date of filled: 28/08/2024 Granted Date :26/03/2025	A Safety System for an assistive blind stick	Dr.P.Jeyakumar	Granted (SA)

14	2024/06620 Date of filled: 28/08/2024 Granted Date :26/03/2025	An Automated solar drone for Surveillance and security	Dr.S.Meivel	Granted (SA)
15	2024/06621 Date of filled: 28/08/2024 Granted Date :26/03/2025	A System for Vehicle Collision Detection using Computer based intelligence	Dr.P.Jeyakumar	Granted (SA)
16	2024/06629 Date of filled: 28/08/2024 Granted Date :26/03/2025	Artificial intelligence enabled health monitoring system	Dr.S.Jegadeesan	Granted (SA)
17	2024/06630 Date of filled: 02/02/2024 Granted Date :26/03/2025	A system for table and food reservation in restaurants	Dr.K.Sheikdavood	Granted (SA)
18	2024/06632 Date of filled :10/11/2023 Published Date: 26/03/2025	A system for controlling the flow of fluid in a flow control valve	Dr.K.Sivanandam	Granted (SA)
19	2024/06679 Date of filled :10/11/2023 Published Date: 26/03/2025	An artificial intelligence powered detection system for traffic optimization	Mr.S.Mohanraj	Granted (SA)
20	202024104901 Date of filled :29/08/2024 Granted Date: 16/09/2024	An Autonomous Soil Testing Based Seed Planting and Water Irrigation Machine	Dr.R.Balamurugan	Granted (German)
21	202441069620 A Date of filled :14/09/2024 Publication Date: 20/09/2024	Machine Learning Driven Wearable Sensor for Monitoring and Classification of Health Issues in Personalized Health Care	Dr.B.Neeththi Aadithiya	Published
22	202024104993 Date of filled :02/09/2024 Granted Date: 21/09/2024	A Position Adjustable Solar Powered Wireless Mobile Charging System	Dr.S.Meivel	Granted (German)
23	202024104904 Date of filled :29/08/2024 Granted Date: 25.09.2024	A Metamaterial Based Wireless Power Transfer System for Cochlear Implant	Dr.P.Jeyakumar	Granted (German)
24	202024104903 Date of filled :29/08/2024 Granted Date: 02.10.2024	A System of Acoustic Metamaterial Based Hearing AID for Tackling Tinnitus and Urban Noise Mitigation	Dr.P.Jeyakumar	Granted (German)
25	202024104906 Date of filled :29/08/2024 Granted Date: 07.10.2024	A Food Quality Checking System	Dr.K.Karthikeyan	Granted (German)
26	SW-19950/2024 Publication Date: 30.12.2024	Forest Fire Detection System	Mrs.S.Sivaranjani	Published
27	SW-19947/2024 Publication Date: 30.12.2024	Blind Assistive System	Dr.P.Jeyakumar	Published

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S. N o.	Patent Application Number & Filing/ Publication Date	Title of the Invention	Name of the Applicant	Status of Patent
2023 - 2024				
1	382409-001 Date of filled : 28/03/2023 Granted Date : 08/12/2023	Compost spraying drone	Dr.A.Sridevi	Design Granted
2	396514-001 Date of filled : 03/10/2023 Granted Date : 23/11/2023	AI based plant extract analysing device to identify disease	Dr.S.Subaselvi	Design Granted
3	202023103672 Date of filled: 03/07/2023 Granted Date: 04/08/2023	Honey harvesting drone	Dr.S.Meivel	Granted (German)
4	202023103671 Date of filled: 03/07/2023 Granted Date: 14/08/2023	A system for protecting the personal files	Dr.S.Meivel	Granted (German)
5	382408-001 Date of filled: 28/03/2023 Granted Date: 17/08/2023	Pick and place drone	Dr.S.Meivel	Design Granted
6	6295731 Date of filled: 11/07/2023 Granted Date: 28/07/2023	Sensor based automatic robotic waste bin	Dr. Vimalnath Sundaram	Granted (UK)
7	401880-001 Date of filled : 11/12/2023 Granted Date : 09/02/2023	AI based stress detection cap	Dr.K.Sheikdavood	Design Granted
8	397075-001 Date of filled : 09/10/2023 Granted Date : 19/01/2024	Radio frequency power amplifier	Dr. P. Sakthi	Design Granted
9	405658-001 Date of filled: 25/01/2024 Granted Date: 05/04/2024	Automatic chemical dispensing system with filter urine analysis	Mrs.P.Yuvarani	Granted
10	529442 Date of filled: 27/01/2022 Granted Date: 21/03/2024	System and method for managing and sowing seeds using an unmanned aerial vehicle	Dr.S.Meivel	Granted
11	6355762 Date of filled: 28/03/2024 Granted Date: 03/05/2024	Sensor based jacket for early detection of cervical cancer	Dr.K.Sivanandam	Granted (UK)
12	410909-001 Date of filled: 18/03/2024 Granted Date: 19/01/2024	IOT based weather monitoring system	Mrs.P.Sanmugavalli	Design Granted
13	202321042472 Date of filled: 30/11/2022 Publication Date: 25/01/2023	Mobile edge computing and line of sight communications for joint MULTI-UAV path planning in IOT networks with riss	Dr.S Vimalnath	Published
14	202311058894 Date of filled: 01/09/2023 Publication Date: 06/10/2023	AI-driven hybrid decision -making frame work for analysis and prediction of business value maximization	Dinesh E	Published
15	202341047869 Date of filled: 16/07/2023 Publication Date: 01/09/2023	Machine learning based pest detection and alert system for farmers using internet of things to	Dinesh E	Published

		improve agriculture yield		
16	202441005229 Date of filled: 25/01/2024 Publication Date: 09/02/2024	A systematic review of machine learning and deep learning methods for student dropout prediction	Mrs. B.Neeththi Aadithiya	Published
17	202441005387 Date of filled: 25/01/2024 Publication Date: 09/02/2024	A machine learning approach for measuring college students' employment and entrepreneurship level	Mrs. B.Neeththi Aadithiya	Published
18	202341086425 Date of filled: 18/12/2023 Publication Date: 12/01/2024	A new era in agriculture: large-scale crop production prediction using time series transformers	Mrs.T.Abirami	Published
19	202441005420 Date of filled: 26/01/2024 Publication Date: 09/02/2024	Integration of internet of things and machine learning in developing reliable and efficient earthquake early warning systems in smart cities	Mr.P.Ramakrishnan	Published
20	202441006972 Date of filled: 02/02/2024 Publication Date: 23/02/2024	AI and image processing based medicine stock maintenance system for hospitals	Dr.K.Sivanandam	Published
21	202341076845 Date of filled: 10/11/2023 Publication Date: 15/12/2023	Cybershield: AI powered network security system with machine learning algorithm	Ms.S.Vasuki	Published
22	202421011511 Date of filled: 19/02/2024 Publication Date: 15/03/2024	Early detection of plant diseases through leaf analysis: an IOT and machine learning approach	Mrs.M.Sentamilselvi	Published
23	202441030909 Date of filled: 17/04/2024 Publication Date: 26/04/2024	Hexagonal solar still	Mrs.S.Sivaranjani	Published
24	202441020862 Date of filled: 17/03/2023 Publication Date: 31/03/2023	Deep learning strategies for forecasting student dropout and academic excellence in higher education	Mrs.T.Balamani	Published
25	202441020861 Date of filled: 19/03/2024 Publication Date: 29/03/2024	Machine learning approaches for predicting teacher's stress, teaching approaches, and student academic outcomes in higher education	Mrs.T.Balamani	Published
26	202441033837 Date of filled: 29/04/2024 Publication Date: 03/05/2024	Next generation telecommunication network infrastructure for low latency data transmission	Dr.K.Sivanandam	Published
27	202411021629 Date of filled: 21/03/2024 Publication Date: 26/04/2024	System and method for facilitating 6G services utilizing existing 5G infrastructure	Dr.K.Sivanandam	Published
28	202421017136 Date of filled: 10/03/2024 Publication Date: 05/04/2024	Real-time language translation device with neural network processing	Dr.K.Sivanandam	Published
29	202421015190 Date of filled: 29/02/2024 Publication Date: 22/03/2024	Optimized machine learning method for enhanced medical diagnostics with focus on lung cancer detection	Dr.K.Sivanandam	Published

30	202441032524 Date of filled: 24/04/2024 Publication Date: 03/05/2024	Intelligent image processing system for adaptive traffic light control	Dr.K.Sheikdavood	Published
31	202441009608 Date of filled: 13/02/2024 Publication Date: 08/03/2024	Cloud-IOT based smart healthcare system for early prediction of heart disease using deep learning based predictive analysis	Dr.C.Nandagopal	Published
32	202441018400 Date of filled: 14/03/2024 Publication Date: 29/03/2024	The future of optoelectronics: improved physical and photoelectrochemical properties of nanostructured CDS thin films	Ms.S.Kavitha	Published
33	202441020464 Date of filled: 19/03/2024 Publication Date: 29/03/2024	Exploring machine learning with graph theory: a generalised social network analysis based classification	Ms.S.Kavitha	Published
34	L-130843/2023 Date of filled: 29/09/2022 Publication Date: 27/07/2023	BEEE student lab manual-copyrights	Dr.S.Meivel	Unpublished
35	L-131021/2023 Date of filled: 30/09/2022 Publication Date: 27/07/2023	BEEE staff lab manual-copyrights	Dr.S.Meivel	Unpublished
36	202441012357 Date of filled: 21/02/2024 Publication Date: 08/03/2024	Design and implement an IOT devices strategically across the agricultural world to enable precise monitoring and control of energy consumption and farming processes	Mr.P.Ramakrishnan	Published
37	202441014648 Date of filled: 28/02/2024 Publication Date: 08/03/2024	Electric Vehicle Traction with Wireless Based Battery Charging and Fault Management System	Dr.R.Rajesh Kanna	Published
38	202441006523 Date of filled: 31/01/202 Publication Date: 09/02/2024	Dry seed vending machine	Dr.S.Vimalnath	Published
39	202441005309 Date of filled: 25/01/2024 Publication Date: 09/02/2024	ENVIRO GAUGE PICO	Dr.V.Mariselvam	Published
40	202441014650 Date of filled: 28/02/2024 Publication Date: 08/03/2024	Intelligent defense for women's security	Mrs.S.Nivishna	Published
41	202441014147 Date of filled: 27/02/2024 Publication Date: 08/03/2024	IOT Based Air and Water Quality Monitoring System	Dr.E.Dinesh	Published
42	202441015631 Date of filled: 02/03/2024 Publication Date: 22/03/2024	IOT equipped and ai-enabled next generation smart agriculture	Dr.S.Meivel	Published
43	202441014148 Date of filled: 27/02/2024 Publication Date: 08/03/2024	OWPT by using dynamic flexible solar panel for EV battery charging	Mrs.T.Balamani	Published
44	202441013807 Date of filled: 26/02/2024 Published Date: 08/03/2024	Anomaly detection with Convolutional Auto encoders for Fingerprint presentation attack detection	Dr.C.Nandagopal	Published

45	202441015086 Date of filled: 29/02/2024 Published Date: 15/03/2024	Smart EV Charging with on-grid Green Energy Power and Wireless Charging	Dr.R.Rajesh Kanna	Published
46	202441011530 Date of filled: 19/02/2024 Published Date: 08/03/2024	Cloud based IoT system for real time monitoring and controlling of water wastage	Dr.R.Kalaiarasan	Published
47	202441016552 Date of filled: 07/03/2024 Published Date: 22/03/2024	Smart agricultural system for leaf disease detection using IOT	Dr.P.Sakthi	Published
48	202441009086 Date of filled: 10/02/2024 Published Date: 08/03/2024	Extraction of energy and carbon sequestration through the incineration of waste material	Dr.K.Sheikdavood	Published
49	202441009919 Date of filled: 13/02/2024 Published Date: 08/03/2024	Visceral bus ticketing system for deaf using RFID and monitoring safety indicators	Mr.K.Sudhakar	Published
50	202441013222 Date of filled: 23/02/2024 Published Date: 08/03/2024	The patient health monitoring system for 24/7 safety monitor in hospital	Mrs.M.Sentamilselvi	Published
51	202441027698 Date of filled: 03/04/2024 Published Date: 12/04/2024	A comprehensive food recognition, freshness detection and nutritional tracking system	Mrs.N.Ramya	Published
52	202441015089 Date of filled: 29/02/2024 Published Date: 15/03/2024	AI-Based Road Defect Detection System Using IOT	Dr.E.Dinesh	Published
53	202441017464 Date of filled: 11/03/2024 Published Date: 29/03/2024	Designing a user-friendly assistive system that caters to the unique needs of visually impaired individuals	Mr. P.Ramakrishnan	Published
54	202441006175 Date of filled: 30/01/2024 Published Date: 09/02/2024	Coupling reduction in MIMO antenna using metamaterial	Dr.V.Mariselvam	Published
55	202441026152 Date of filled: 29/03/2023 Published Date: 05/04/2023	Anonymous user detection using Real time face recognition	Dr.C.Nandagopal	Published
56	202441011034 Date of filled: 16/02/2024 Published Date: 08/03/2024	Smart restroom unpleasant odour detection and notification system	Dr.K.Sheikdavood	Published
57	202441012356 Date of filled: 21/02/2024 Published Date: 08/03/2024	Bike Riding Jacket: Health and Position Tracking System	Mr.L.Ramesh	Published
58	202441017075 Date of filled: 09/03/2024 Published Date: 29/03/2024	Millimeter-wave high gain energy harvesting using 2×2 microstrip patch antenna array for 5G mobile case	Mr.K.Sudhakar	Published
59	202441018727 Date of filled: 14/03/2024 Published Date: 29/03/2024	Enhancing financial growth in agriculture through environmental based crop recommendation	Dr.K.Sivanandam	Published
60	202441018728 Date of filled: 14/03/2024 Published Date: 29/03/2024	Fall detection system using heart beat sensor for elderly care	Dr.P.Sakthi	Published
61	202441018306 Date of filled: 13/03/2024 Published Date: 29/03/2024	Vehicle BlackBox Model Integrated with IoT and Deep Learning to Save Lives	Mrs.P.Sanmugavalli	Published

62	202441018729 Date of filled: 14/03/2024 Published Date: 29/03/2024	Smart meter firmware to monitor and control the electricity consumption	Ms.S.Kavitha	Published
63	202441024005 Date of filled: 26/03/2024 Published Date: 05/04/2024	Enhancing residential electric vehicle charging efficiency through optimization solutions	Dr.A.Murugan	Published
64	202441025342 Date of filled: 28/03/2024 Published Date: 05/04/2024	Next Gen Wearable Tech	Dr.S.Vimalnath	Published
65	202441018307 Date of filled: 13/03/2024 Published Date: 29/03/2024	Optimizing crop irrigation through AI - driven smart valve	Mr.T.Sivakumar	Published
66	202441019801 Date of filled: 18/03/2024 Published Date: 29/03/2024	Futuristic smart window automation using algae biopanel	Mrs.S.Nivishna	Published
67	202441018305 Date of filled: 13/03/2024 Published Date: 29/03/2024	AI Based Smart Animal Tracking and Detection with Multi - Faceted Alert System	Mr.T.Senthil Kumar	Published
68	202441019743 Date of filled: 17/03/2024 Published Date: 29/03/2024	IOT-enabled smart shopping cart for automated stock management	Mrs.M.Sentamilselvi	Published
69	202441019711 Date of filled: 17/03/2024 Published Date: 29/03/2024	Sound bite hearing system for blind people	Dr.S.Meivel	Published
70	202441024381 Date of filled: 27/03/2024 Published Date: 05/04/2024	Smart Borewell Rescue Device	Mrs.T.Balamani	Published
71	202441024380 Date of filled: 27/03/2024 Published Date: 05/04/2024	An aerial docking and battery swapping system for VTOL UAV	Dr.P.Jeyakumar	Published
72	202441017076 Date of filled: 09/03/2024 Published Date: 29/03/2024	Smart wearable device for women safety	Dr.G.Shanmugavadivel	Published
73	202341077648 Date of filled: 15/11/2023 Published Date: 15/12/2023	A system for Preserving tomatoes using Evaporative Cooling	Dr.P.Jeyakumar	Published
74	202341068512 Date of filled: 12/10/2023 Published Date: 27/10/2023	A system for organ storage and a method thereof	Dr.P.Jeyakumar Dr.S.Jegadeesan	Published
75	202341077649 Date of filled: 15/11/2023 Published Date: 15/12/2023	A wearable blood glucose level detection device and a method thereof	Dr.K.Karthikeyan	Published
76	202441019013 Date of filled: 15/03/2024 Published Date: 29/03/2024	Hazardous gas detection kit using RF communication for sewage workers	Dr.P.Jeyakumar	Published
77	397075-001 Date of filled: 09/10/2023 Granted Date: 19/01/2024	Radio frequency amplifier	Mrs. P. Sakthi	Granted
78	6365142 Date of filled: 09/05/2024 Granted Date: 19/07/2024	Smart covid testing kit with digital display	Dr. P. Sakthi	Granted (UK)
79	202341068513 Date of filled: 12/10/2023 Published Date: 27/10/2023	System and method for wireless power transfer in electric vehicle charging station using metamaterial	Dr.P.Jeyakumar	Published

80	202441016933 Date of filled: 08/03/2024 Published Date: 22/03/2024	Smart EV charging stations management system	P.T.Sivagurunathan	Published
81	202241067828 Date of filled: 25/11/2022 Published Date: 31/05/2024	Drone based waste disposal system	Mr.S.Meivel	Published
82	202241067826 Date of filled: 25/11/2022 Published Date: 31/05/2024	Honey harvesting drone	Mr.S.Meivel	Published
83	202241067825 Date of filled: 25/11/2022 Published Date: 31/05/2024	A system for protecting the personal file	Mr.S.Meivel	Published

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S. N o.	Patent Application Number & Filing/ Publication Date	Title of the Invention	Name of the Applicant	Status of Patent
2022 - 2023				
1	202211043968 Date of filled : 01/08/2022 Publication Date : 12/08/2022	IOT with artificial intelligence (AI) is based on the use of smart chips to create an embedded operating system with a high level of confidence	Dr.S.Vimalnath	Published
2	202241043452 Date of filled : 29/07/2022 Publication Date : 12/08/2022	A hybrid model of internet of things (IOT) and cloud computing to manage big data in smart home services	Dr.E.Dinesh	Published
3	202241064060 Date of filled: 09/11/2022 Published Date: 25/11/2022	AI and the Internet of Things (IOT) are used together to make a safe routing algorithm for mobile ad-hoc networks that save energy	Dr.S.Vimalnath	Published
4	202341001687 Date of filled : 09/11/2022 Publication Date : 25/11/2022	Design of frame work for an efficient radio frequency spectrum utilization technique for cognitive radio networks	Ramakrishnan P	Published
5	415162 Date of filled: 26/06/2021 Granted Date: 22/12/2022	Method and system for detecting growth and disease conditions based on vegetation indices of plants	Meivel S	Granted
6	202241068297 Date of filled: 28/11/2022 Publication Date: 23/12/2022	One dimensional CNN based high risk maternal and fetal monitoring system with IOT	S Sivaranjani	Published
7	356802-001 Date of filled : 16/01/2022 Granted Date : 05/01/2023	Automatic fire sensing and extinguishing robot	Dr.S.Palanivel Rajan	Granted
8	356803-001 Date of filled : 16/01/2022 Granted Date : 01/02/2023	A programmable tag tester device	Dr.S.Palanivel Rajan	Granted
9	357156-001 Date of filled: 22/01/2022 Granted Date: 02/03/2023	An autonomous scrap collecting robotic device	Dr.S.Palanivel Rajan	Granted
10	328758-001 Date of filled: 06/04/2020 Granted Date: 25/01/2023	Communication antenna	Dr.S.Palanivel Rajan	Granted
11	374449-001 Date of filled: 21/11/2022 Granted Date: 20/01/2023	Apple picking robot	Ms.S.Subuselvi	Granted
12	374843-001 Date of filled: 30/11/2022 Granted Date: 07/02/2023	Microstrip patch antenna	Dr.P.Jeyakumar	Granted
13	374847-001 Date of filled: 30/11/2022 Granted Date: 25/01/2023	Agriculture drone for spraying nutrients	Meivel S	Granted

14	202331001035 Date of filled: 05/01/2023 Publication Date: 20/01/2023	Novel techniques to enhance the wireless sensor network efficiency through coverage and energy utilization techniques	Sivagurunathan PT	Published
15	202311001728 Date of filled: 09/01/2023 Publication Date: 20/01.2023	A systematic approach for IOT & machine learning technologies based on sensor data for air quality prediction & monitoring system in sustainable smart cities	Kavitha S	Published
16	202311000305 Date of filled: 03/01/2023 Publication Date: 20/01/2023	Smart traffic management system using artificial intelligence internet of things (IOT) and embedded with techniques of video processing	B.Neeththi Aadithiya	Published
17	202341000116 Date of filled: 02/01/2023 Publication Date: 13/01/2023	Implementation of green internet of things (IOT) for eco-friendly and sustainable smart cities	B.Neeththi Aadithiya	Published
18	202341017941 Date of filled: 16/03/2023 Publication Date: 31/03/2023	IOT based health monitoring system for autism spectrum disorder	Abirami.T	Published
19	202341015362 Date of filled: 07/03/2023 Publication Date: 17/03/2023	Wideband dual polarized antenna array for 5g massive systems	Dr.P.Jeyakumar	Published
20	202341017564 Date of filled: 15/03/2023 Publication Date: 31/03/2023	Fire detection and alerting system in train using GSM	Rajendrakumar.M.G	Published
21	202341017563 Date of filled: 15/03/2023 Publication Date: 31/03/2023	Urban subway flood water management system	Sheikdavood K	Published
22	202341017562 Date of filled: 15/03/2023 Publication Date: 31/03/2023	Hydrogen sulphide (H ₂ S) gas detection system using saw-mems sensor	Dr.K.Karthikeyan	Published
23	202341015769 Date of filled: 09/03/2023 Publication Date: 17/03/2023	Design of safety bed: A neoteric technology based old age people fall detection using neural network	Dr. A. Kavitha	Published
24	202341018320 Date of filled: 17/03/2023 Publication Date: 31/03/2023	IOT based smart waste management system for smart cities	K. Sudhakar	Published
25	202341018321 Date of filled: 17/03/2023 Publication Date: 31/03/2023	IOT based advanced smart cart shopping using RF identification with customer alert notification	Sentamilselvi M	Published
26	202341018323 Date of filled: 17/03/2023 Publication Date: 31/03/2023	Smart activating cultivation with renewable energy by using IOT	Ramakrishnan P	Published
27	202341018324 Date of filled: 17/03/2023 Publication Date: 31/03/2023	A deep neural network based fishing floating detection and aquaculture monitoring system	Dr. P. Jeyakumar	Published
28	2023410123253 Date of filled: 29/03/2023 Publication Date: 07/04/2023	Energy harvesting WBANS using mac protocol	Dr. C. Nandagopal	Published
29	202341019165 Date of filled: 21/03/2023 Publication Date: 31/03/2023	Smart garbage monitoring system	Kaarthik K	Published

30	202341017943 Date of filled: 16/03/2023 Publication Date: 31/03/2023	Landslide monitoring techniques with IOT integration	G Shanmugavadivel	Published
31	202341019535 Date of filled: 21/03/2023 Publication Date: 31/03/2023	Advanced solar based EV vehicle wireless charging using intelligence sensor	Rajendrakumar.M.G	Published
32	202321016742 Date of filled: 13/03/2023 Publication Date: 31/03/2023	A ultrawideband antenna with omni-directional radiation for Wi-MAX applications	Dr.R.Rajesh Kanna	Published
33	202321017107 Date of filled: 14/03/2023 Publication Date: 31/03/2023	Floating point pipelined mac design for satellite application	Dr.A.Murugan	Published
34	202321017108 Date of filled: 14/03/2023 Publication Date: 31/03/2023	Pulsed low frequency therapy device	Dr.P.Jeyakumar	Published
35	202321017109 Date of filled: 14/03/2023 Publication Date: 31/03/2023	Design and development of an IOT based smart poultry farm	L Ramesh	Published
36	202321017110 Date of filled: 14/03/2023 Publication Date : 31/03/2023	A 2.4GHZ energy efficient transmitter for wireless medical applications	Dr.R Rajesh Kanna	Published
37	202341003015 Date of filled: 15/01/2023 Publication Date: 27/01/2023	Deep learning based technique to predict the impact of residential energy storage system modelling on power system	Kavitha S	Published
38	202341011803 Date of filled: 21/02/2023 Publication Date: 17/03/2023	Image registration techniques for accurate diagnosis of breast cancer by utilising radiology	Abirami T	Published
39	202341025010 Date of filled: 31/03/2023 Publication Date: 21/04/2023	Design of smart home automation system along with energy efficiency and internet of things through wi-fi	A Sridevi	Published
40	357157-001 Date of filled: 22/01/2022 Granted Date: 26/05/2023	A Color guided material handling robotic platform	Dr.S.Palanivel Rajan	Granted
41	202321024555 Date of filled: 31/03/2023 Publication Date: 05/05/2023	A novel design of UV disinfection robot	Dr.K.Sivanandam	Published
42	202311022632 Date of filled: 28/03/2023 Publication Date: 19/05/2023	Analysis of security of IOT based health care system using block chain technology solutions	Sentamilselvi M	Published
43	202341029515 Date of filled: 24/04/2023 Publication Date: 26/05/2023	Design of the battery charger for off-grid applications powered by photovoltaic solar energy	Mrs.P.Sakthi	Published
44	202341012834 Date of filled: 25/02/2023 Published Date: 17/03/2023	Integrating machine learning techniques along wireless sensor network for precision in agriculture	Dr.N.Mahendaran	Published
45	201641017919 Date of filled: 25/05/2016 Granted Date: 11/12/2022	Automatic security logic in railway level crossings	Dr. Kavitha Arunachalam	Granted