

Velammal College of Engineering and Technology, Madurai – 625 009
Department of Electronics and Communication Engineering

Patents Filed during the academic year 2023-2024

S.No	Inventor's Name	Title	Application No. & Patent Filed Date	Status
1.	Dr.K.Kavitha	Textile Based Microstrip Patch Antenna Integrated with Metasurface and Electromagnetic Band Gap	202341047441 A & 14/07/2023	Published on 22/09/2023
2.	Dr.K.Kavitha Dr.S.Gadhimathi Alias Usha Mr.C.Arjun Mr.T.K.Santhosh Mr.J.M.S.Aravind Kanna	System for Currency Recognition and Counterfeit Detection for Visually Impaired Individuals	202341047183 & 13/07/2023	Published on 22/09/2023
3.	Dr.K.Kavitha Dr.S.Gadhimathi Alias Usha Dr.J.Sivasankari Ms.Naveena Mr.G.Pradeep Kumar A.Alaimahal Mr.L.Vinoth Kumar V.G.Janani Dr.N.Nagarani	System and Method for Detecting Plant Diseases Using Drone-Borne Multispectral Cameras & Deep Learn	202341047465 A & 14/07/2023	Published on 22/09/2023
4.	Dr.K.Kavitha Dr.S.Vasuki	AyurPulse-An AI based Ayurvedic Wrist Pulse Monitoring Device	202341049076 & 20/07/2023	Published on 01/09/2023
5.	Dr.P. Karthikeyan A. Al Mohamed Bilal S. Shivani Suvatheka A. Vishal Jonathan Mr.G.Pradeep Kumar NS. Raaja Karthlkeya S. Dinesh S.Ammu Nishitha	Neonatal Smart Health Monitoring System	202341046787 A & 12/07/2023	Published on 22/09/2023
6.	A.Suban A.Alaimahal Dr.N.Suresh Kumar Mr.G.Pradeep Kumar Mr.L.Vinoth Kumar Dr.J.Sivasankari Mr.S.Vijay Gokul V.G.Janani Dr.N.Nagarani	Optical Filters for Polymers Identification and Sorting using NIR Reflectance Spectrum	202341047193 A & 13/07/2023	Published on 22/09/2023

Patents Filed during the academic year 2022-2023

S.No	Inventor's Name	Title	Application No. & Patent Filed Date	Status
1.	Dr.J.Sivasankari	An IoT platform for Intelligent Health Monitoring and its Application in the context of COVID'19	202241064986 & 14/11/2022	Published
2.	Mr. M.Sakthivel Mr.K.Karthik	A Music Selection system based on facial recognition with wireless communication and means	202341008230 & 08/02/2023	Published
3.	Dr.S.Gadhimathi Alias Usha DR.K.Kavitha Dr.P.Kavitha Mr.G.Pradeep Kumar Mr.B.Karthikeyan Dr.B>Muneeswari Mr. L. Vinoth Kumar Mrs.V.G.Janani	Apparatus for Healing Diabetic Foot Ulcer	386423-001 & 17/05/2023	Published

Patents Granted during the academic year 2022 -2023

S.No	Inventor's Name	Title	Patent Number and Date of Grant	Status
1.	Dr.S.Gandhimathi Alias Usha	Device For Monitoring The Color & Texture Of Samples	358553-001 & 14/02/2022	Granted
2.	Mr.A.Suban	Automatic Fire Sensing And Extinguishing Robot	356802-001 & 16/01/2022	Granted
3.	Dr.N.Suresh Kumar DR.K.Kavitha Dr.J.Sivasankari Mr. S. Vijay Gokul Dr. N. Nagarani Mr. V. Karthick	Microwave Sensor Based Soil Analyzer	377763-001 & 21/01/2023	Granted

Patents Filed during the academic year 2021-2022

S.No	Inventor's Name	Title	Application No. & Patent Filed Date	Status
4.	Dr.P.Karthikeyan	A method for Detecting Breast Cancer Using BAT Optimized HCGLCM	202141035506A 13.08.2021	Published
5.	Dr.K.Kavitha	Complementary Deoxyribo Nucleic Acid Shaped Fibonacci Antenna for Frequency Reconfigurability Applications	202141020324 07.05.2021	Filed
6.		Genetic Algorithm Inspired Four Arm Sinuous Slot Antenna For X-Band Applications	202141020253 A 07.05.2021	Published

Patents Filed during the academic year 2020-2021

S.No	Inventor's Name	Title	Application No. & Patent Filed Date	Status
1.	Mr.A.Suban Ms.A.Alaimahal	Square Shaped CSRR Meta material Inspired Rectangular Patch Antenna for Triple Band Application	202041016584A 05.06.2020	Published

Patents Filed during the academic year 2019-2020

S.No	Inventor's Name	Title	Application No. & Patent Filed Date	Status
1.	Dr.P.Suveetha Dhanaselvam	A Multilayer Gate Metal oxide Semiconductor FET for reducing short channel effect	22/2020 May 2020	Published
2.	Dr.A.Babu Karuppiyah Mr.R.Raja raja	Life saving IOT based Drainage block Detection and Removal to prevent Manual Scavengering	201841003159A 02.08.2019	Published

Patents Filed during the academic year 2018-2019

S.No	Inventor's Name	Title	Application No. & Patent Filed Date	Status
1.	Dr.S.Vasuki Dr.G.Veera Senthil Kumar	Development of an efficient system for early detection of Diabetic Retinopathy Using Retinal Imaging	201941005575 13.02.2019	Registered

Patents Filed during the academic year 2017-2018

S.No	Inventor's Name	Title	Application No. & Patent Filed Date	Status
1	Dr.A.Babu Karuppiyah Mr.R.Raja raja	Life saving IOT based Drainage block Detection and Removal to prevent Manual Scavengering	201741044324 27.01.2018	Registered
2	Dr.S.Vasuki Dr.G.Veera Senthil Kumar Mr.P.Anand	Development of Efficient Algorithm for Hyper spectral unmixing by Investigating Band Selection Technique	201841003159 11.12.2017	Registered

Patents Filed during the academic year 2016-2017

S.No	Inventor's Name	Title	Application No. & Patent Filed Date	Status
1.	Dr. S. Vasuki Mr. A. Suban Mr. V. Karthick	Environmental Hygienic Automatic Garbage waste Disposal system in Residence	201641022399 30.06.2016	Registered

Patents Filed during the academic year 2015-2016

S.No	Inventor's Name	Title	Application No. & Patent Filed Date	Status
1.	Dr. S. Vasuki Mr. A. Suban Mr. V. Karthick	Low Cost Life Saving and Fire Accident Prevention System in Firework Industries	2934/CHE/2015/June 2015	Registered
2.	Dr. S. Vasuki Mr. A. Suban Ms.A.Alaimahal Mr. V. Karthick	Automatic Sanitary Napkin Disposal and Degradation System	2933/CHE/2015/June 2015	Registered

Patents Filed during the academic year 2014-2015

S.No	Inventor's Name	Title	Application No. & Patent Filed Date	Status
1.	Dr.P.Suveetha Dhanaselvam	Analytical Modelling of Quad Material Surrounding Gate MOSFET	Ref.No.3657/CHE/2014 28.07.2014	Registered
2.	Dr.N.Sureshkumar Dr.P.Rajeswari	Conductive concrete Blocks from industrial waste as electromagnetic Shielding material	Ref: 1876/CHE/201510.04.2015	Registered

3.	Dr.G.Velmathi	Filed a patent on A Smart Sanitary Assistive Device for Kindergarten Children and Elderly People	Ref.No.3900/ CHE/2014 08.08.2014	Registered
4.	Dr.G.Velmathi & Dr.B.Sridevi	Filed a patent on A Protective Intelligent Innerwear for Children to Safeguard from Sexual Abuse	Ref.No.3901/ CHE/2014 08.08.2014	Registered

Patent Granted

Patents Granted during the academic year 2020-2021

S.No	Inventor's Name	Title	Patent Granted and Date	Status
4.	Mr.A.Suban	CNN Based Model for Disease Classification Using High Temporal and spatial resolution Images of Simultaneous EEG - MRI	2020103304 and 23.12.2020	Granted Australian Government
5.	Dr.P.Rajeswari	Kitchen item cleaning and disinfective device using water and UV light	2020101948 and 16.09.2020	Granted Australian Government
6.	Dr.P.Suveetha Dhanaselvam	A Multilayer Gate Metal oxide Semiconductor FET for reducing short channel effect	202041019570 and May 2020	Granted