



## VELALAR COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS)

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)  
(Accredited by NAAC with 'A' Grade and NBA)  
Thindal, Erode - 638012, Tamil Nadu, India.  
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### PATENTS AND COPYRIGHTS

#### MECHANICAL ENGINEERING

1. Dr.R.Kumaravelan, Dr.A.Thirumoorthy, T.C.R.Dinesh published a patent on 'System and Method for Producing Green Composites from Industrial and Agricultural Waste', on 30.09.2021. (Patent Application Number: 20211015691)
2. Dr.R.Kumaravelan published a patent on 'Development of IOT Household Health Safety System', on 24.03.2021. (Patent Application Number: 202141012686)
3. Dr.R.Kumaravelan, T.C.R.Dinesh published a patent on “Advanced and Integrated Security System for Two Wheelers”, on 31.01.2018 (Patent Application Number: 201841003543)

#### ELECTRONICS AND COMMUNICATION ENGINEERING

1. Prof. L.Peter Stanley Bebington, Dean (Academics) and Mr. K. Mohanraj , Alumni (ECE) received a patent (300478) on 30.08.2018 for their invention “An Infrared Sensor Control System for Submersible Pump” which is an innovation used in determination of dry run condition for submersible pump.
2. Prof. L.Peter Stanley Bebington, Dean (Academics) and Mr. K. Mohanraj , Alumni (ECE) received a patent (305047) on 27.12.2018 for their invention “An authenticated self defense system” which is an innovation to protect women against from harm when they travel alone.
3. Ms.M.Nisha Angeline and Mr.S.K.Manikandan published a patent titled “Architecture to Develop Multipliers for High Speed Computing Applications” with patent application number No. : 201741019281 A on 09.06.2017
4. Ms.P.Tamilvani and Dr.K.R.Valluvan published a patent titled “Harmonics minimization by Cascaded Multilevel Inverter” with patent application number No.:201841041373 on 09.11.2018 and first examination report received.
5. Dr.P.Kanmani, Dr.Prabha Selvaraja, Dr.B.G.Geetha, Dr.Vijay Kumar Burugari, Dr.Singaravelan, Ms.P.Saranya, Dr.N.Yuvaraj, Dr.J.Santhosh, Mrs.S.Savitha, and Dr.M.Pravinkumar published a patent titled “System to Facilitate Visually Impaired Person to Identify Person Present in Surrounding” with patent application number No.: 201941050087A on 13.12.2019.
6. Mr.Arun Ranganathan, Dr.V.Arun Prasad, Mr.Karthik Rao.M.C, Dr.Manjula Pattnaik, Dr.M.Pravin Kumar, Dr.S.K.Manikandan and Kandavalli Sumanth Ratna published a patent titled “Alcohol Detector embedded in Vehicle’s seat belt” with patent application number No.: 202011018414 on 19.06.2020.
7. Dr.M.Abdullah, Dr.M.Kalamani, Mr.S.P.Prakash, Mr.L.Rajasekar, Dr.M.Krishnamoorthi, Dr.S.Kirubakaran, Dr.S.Karthick and C.Raju published a patent titled “Smart Walking Stick for Sightless people” with patent application number No.: 02041032056 on 07.08.2020.
8. Dr.Chitra Sathiamurthi, Dr.K.R.Valluvan and Dr.P.Sathiamurthi published a patent titled “cloud based Data Acquisition in Multi-Level Inverters for Electric Power Quality Analysis” with patent application number No.: 202041057391 filed on 31.12.2020.
9. Mr.K.Ravichandran,Mr.K.Rajaram,Dr.M.Kalamani,Dr.S.Rajan,Dr. M. Krishnamoorthi published a patent titled “Smart Weighment and Centralized Payroll Reckoning Machine for Tea Plantations with patent application number No.: 202041043131 on 05.03.2021.



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10. Dr.M.Nisha Angeline and Dr.S.K.Manikandan granted a patent titled "Challenges response Authentication mechanism with dynamic questions against blind attacks for cognitive IoT networks" with patent application number No.: 2021102178 on 02.06.2021.
11. Dr.V.Chandrasekaran, Dr. M. Pravin Kumar, Ms.K.S.Kausalya Devi, S.B.Abitha, R.Divya, Mr.P.Prakash, Mr.S.Surender, Mrs.P.Poornima, Mr.S.Poornachandran, Mr.S.Nachimuthu and Mr.S.Pavithra published a patent titled "Smart Child Rescue System from Borewell" with patent application number No.: 202141025208 on 18.06.2021.
12. Ms.K.K.Divya, Dr.T.Thulasimani, Mrs. Karthigaiveni, Mr. N.N. Sujana, Dr.Kavitha Subramani, Mr. Avadhesh Kumar Dixit, Mrs. P.Ragavi, Dr.Raju Dindigala, Dr.T.Veeramani, Dr.Sushma Jaiswal, Dr. T.Ramakrishna Goud, and Mr. Shaikh Mohd Ashfaque published a patent titled "Image Reconstruction Method via Iterative Linear Interpolation using Verge Points" with application number 202141038028 on 24.09.21.
13. Dr.A.Prasanth, Mrs.M.Namratha, Dr.P.Muneeshwari , Ms.K.Kavitha, Mrs.K.Saranya, Mr,Ram Nivas and Mrs.R.Vaishnavi published a patent titled "PNH- Device: IoT based ICU Patient Notification and Health Monitoring Device" with application number 202141053774A on 10.12.2021.
14. Prof. L.Peter Stanley Bebington, Dean (Academics) received a copyright for his work "Automated Order Processing and Sales Management System" with registration number SW-10290/2018.
15. Dr. K.R.Valluvan received a copyright for his work "A Metric Balancing Policy Design for Wireless Sensor Networks Deployment using Simulation Software" with registration number SW-10845/2018.
16. Dr. Nisha Angeline, Dr. S.K.Manikandan, Dr.K.R.Valluvan and Mr.K.Rajaram received a copyright for their work "Multiplication of Binary Numbers is using Hybrid Vedic Multiplier using Nikhilan Sutra and Karatsuba Algorithm with reduction in N-1 bits" with registration number SW-10677/2018.
17. Dr. K.R.Valluvan received a copyright for his work "Modified genetic algorithm optimized fractional order PID controller for sensorless Speed Control of BLDC Motors using MATLAB software" with registration number SW-11398/2018.
18. M.Parimala Devi received a copyright for her work "NAND gate based architecture for data matching encoded with error correcting code in cache memory" with registration number SW-12161/2019.
19. Dr.M.Parimala Devi, Mr.G.Boopathi Raja, Mr.V.Gowrishankar, Dr.P.Brindha, Ms.T.Sathya, Dr.K.R.Valluvan, Mr.M.Vijayan received a copyright for their work "NOR based architecture for data matching encoded with error correcting codes in cache memory" with registration number SW-13738/2020.
20. Dr. S .Mahendrakumar & Dr.T.Gunasekar received a copyright for their work "Investigation on Performance Testing of Smart Antenna in Wireless Ad Hoc Networks" with diary number 16729/2020-CO/L.
21. Dr.M.Parimala Devi, Mr.G.Boopathi Raja, Dr.V.Gowrishankar, Ms.T.Sathya, Ms.K.Kavitha & Ms.S.Nithya received a copyright for their work "Multiplexer Approximation Logic based 4x4 Dadda Multiplier Using Carry Look Ahead Adder" with diary number 21331/2020-CO/SW.

### ELECTRICAL AND ELECTRONICS ENGINEERING

1. Dr.S.K.Manikandan, published a patent on 'Architecture to Develop Multipliers for High Speed Computing Applications' on 01.06.2017. (Patent Application Number: 201741019281)



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### COMPUTER SCIENCE AND ENGINEERING

1. Dr.V.Latha Jothi, Dr.S.Kayalvili, Ms.D.Lavanya, Ms.S.Subathra published a patent (Appl. No.:202041055413) on 25.12.2020 for their invention "Cloud Computing based e-learning platform".
2. Ms.S.Ponni, Ms.S.Nithya, Ms.S.Vishnupriya published a patent (Appl. No.:202041057559) on 5.2.2021 for their invention "Recommendation of doctors based on the ratings and tracking status of doctors availability to handle the pandemic situations".
3. K.Vijaya published a patent (Appl. No.: 202041040688) on 02.10.2020 for her invention "Management of Temple Collection Box using Sensors and Cloud Data Storage".
4. Dr.S.Sadesh, Dr.S.Goulraj published a patent (Appl. No.: 202041036326) on 04.09.2020 for their invention "Methane gas measuring device in food waste using Raspberry PI, MQ-4 sensor".
5. Ms.C.Kotteeswari, Ms.M.MohanaSundari, Mr.S.Vivekanandan, Ms.K.MohanaPriya published a patent (Appl. No.: 202141003350) on 05.02.2021 for their invention "Hybrid phase change material embedded over glove for better comfort with AI assistance".
6. Dr.S.Sadesh, Dr.S.Goulraj published a patent (Appl. No.: 202041026105) on 10.07.2020 for their invention "A Low-Cost 4G Smart Phone Detector and Jammer System GSM - 900 MHZ and 1800 MHZ for using Matlab Simulink".
7. Dr.S.Jabeen Begum, was granted a patent (2020103027) on 09.12.2020 for her invention "Staggered Short Transmission (SST) protocol for routing during energy saving through WSN" from Australian Government.
8. Ms.K.Vijaya, was granted a patent (2020102441) on 28.10.2020 for her invention "Secure communication among IoT Devices through IoT Coin Operation System" from Australian Government.
9. K.Mohanapriya published a patent (Appl. No.: 202111041201) on 01/10/2021 for her invention "Blockchain-based secure, reliable, and distributed voting system".
10. Dr.M.Deepa published a patent (Appl. No.: 202141046599) on 12/10/2021 for her invention "Smart voice emotion identification system for affective electronic learning using Image processing technique.".
11. M.Mohanasundari published a patent (Appl. No.: 202131040837) on 03/12/2021 for her invention "Deep Learning based smart attendance management system".
12. Dr.S.Jabeen Begum published a patent (Appl. No.: 202141042899) on 05/11/2021 for her invention "AI based smart cloud computing 8k video codec".
13. C.Kotteeswari, Dr.S.Kayalvili published a patent (Appl. No.: 202141049829) on 12/11/2021 10/12/2021 for her invention "Deep Learning based fault detection electrical distribution network".
14. Dr.S.Kayalvili published a patent (Appl. No.: 202141055342) on 10/12/2021 for her invention "Embedded systems based anti-theft ATM machine".
15. Dr.V.Latha Jothi published a patent (Appl. No.: 202141046856) on 29/10/2021 for her invention "Scanning and identification of public with ambulance device using AADHAR card databank".



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### INFORMATION TECHNOLOGY

1. Dr.V.K.Manavalasundaram published a patent titled "Methane Gas Measuring Device in Food Waste Using Raspberry PI, MQ-4 Sensor" on 24.08.2020. (Patent Application No.: 202041036326 A)
2. Ms.R.Menaka published a patent titled "Modified random forest algorithm for the diagnosis of ALZHEIMER DISEASE" on 24.08.2021. (Patent Application No.: 2021411038348)
3. Mrs.T.Premamala, Dr.S.Viveka published patent titled "Data processing equipment as well as peripheral apparatus and devices" on 28.05.2020. (Patent Application No.: 330034-001).
4. Dr.V.Srinivasan, Ms.R.Maheshwari, Ms.S.Kiruba, Ms.T.Kokilavani published a patent titled "Virtual labs using cloud computing" on 14.12.2020. (Patent Application No.:202041054268 A)
5. Dr.V.K.Manavalasundaram published a patent titled "A foldable string light assembly" on 03.02.2020. (Patent Application No.: 202011004567 A)
6. Ms.T.Nithya published a patent titled "Management of temple collection box using sensors and cloud data storage" on 17.01.2020. (Patent Application No.: 202011002081 A)

### MEDICAL ELECTRONICS

1. Dr.V.Chandrasekaran, Dr.M.Pravin kumar, K.S Kausalya devi, S.B.Abitha, R.Dhivya, P.Prakash, P.Poornima, S.Surender published a patent on 'Smart child rescue system from borewell' on 18.06.2021 (Patent Application Number: 202141025208)
2. Dr.V.Chandrasekaran published a patent on 'IoT and LORA based safety monitoring system for school and college bus' on 26.03.2021 (Patent Application Number:20214102143)
3. Dr.M.Pravin kumar published a patent on 'An IOT based Automatic Fatigue and Health Monitoring System during Travel' on 16.10.2020 (Patent Application Number: 202041043131)
4. Dr.V.Chandrasekaran published a patent on 'A novel multiple-access edge computing technique for ultra-reliable low-latency communication (URLLC), and MAS Internet of things (IoT) in 5G networks' on 15.05.2020 (Patent Application Number: 202041014796)

### MASTER OF BUSINESS ADMINISTRATION

1. Dr.D.Muthukrishnaveni, published a patent on "Block Chain Based Smart Management of Human Resource to Optimize Performance" on 05.11.2021 (Patent Application No.202141048982A)
2. Dr.T.Mohanapriya, Dr.D.Aarthi published a patent on "A Customer Segment Analysis Tool for Cosmetics Products" on 05.06.2020 (Patent Application No.202041017339A)