



NANDHA ENGINEERING COLLEGE, ERODE – 52

(Autonomous)

Department of Electronics and Communication Engineering

LIST OF PATENT

| S.No | Academic Year | Patent Applied | Published | Awarded (Grant) |
|--------------|---------------|----------------|-----------|-----------------|
| 1 | 2020-21 | 1 | 1 | - |
| 2 | 2021-22 | 11 | 11 | 2 |
| 3 | 2022-23 | 17 | 15 | 6 |
| 4 | 2023-24 | 5 | 4 | 4 |
| Total | | 34 | 31 | 12 |

| S.No | Academic Year | Patent Number | Name of the staff | Title of the patent | Status |
|------|---------------|---------------|------------------------|--|--------------------|
| 1 | 2020-2021 | 202141038079A | Dr.S.Kavitha | Traffic Controlling and Monitoring Using IoT | Published |
| 2 | 2021-22 | 202241031568A | T.Jayachandran | A conveyor based Industrial Ironing System | Published(Awarded) |
| 3 | 2021-22 | 202141057953A | Dr.D.Arulanantham | IoT Based smart vehicle automation and Embedded safety, security and tracking system by wireless sensor networks | Published |
| 4 | 2021-22 | 202241007441 | Dr.D.Arulanantham | FPGA based Ethernet bridge for optical fiber communication system | Published |
| 5 | 2021-22 | 202041039285A | Dr.S.Kavitha | Touch-Less Hand Sanitizer Dispenser | Published |
| 6 | 2021-22 | 202241007568 | Mr.G. Rathanasabhpathy | Implementation of Effective widebandcavity backed patch antena for Air Surveillance Radar Application | Published |
| 7 | 2021-22 | 202241021368A | Dr.C.N.Marimuthu | Design An Intelligent Irrigation system using IoT and Cloud Computing | Published |
| 8 | 2021-22 | 202241007445A | Mr.E.K.Arulkarthick | smart dual quad axis solar tracking systems to generate maximum power by using embedded tech | Published |

| | | | | | |
|----|---------|----------------------|-----------------------------------|---|--------------------|
| 9 | 2021-22 | 202241008447 | Ms.S.Brindha Ms.K.Gayathridevi | Image Processing based smart system for teeth disease diagnosis | Published |
| 10 | 2021-22 | Design no 354212-001 | Dr.N.Rengarajan | 3-2-1 Serpentine flow channel of fuel cells | Published(Awarded) |
| 11 | 2021-22 | 202241005522 A | Ms Niji.P.S | Improved Security Level in ATM Machine using Biometric Based Authentication System | Published |
| 12 | 2021-22 | 202241026579A | Dr C.N.Marimuthu | Fuel Level Management and tracking of Vehicle using IoT | Published |
| 13 | 2022-23 | 202241039604 A | Dr C.N.Marimuthu | IoT based Automatic Vehicle accident prevention system for mountain roads | Published |
| 14 | 2022-23 | 202241059487 A | Mr.T.Jayachandran | Solar Drier Integrated with HSU for Crops | Published |
| 15 | 2022-23 | 202241034998 A | Mr.T.Jayachandran | Smart caregiver for Covid-19 patient using AI | Published |
| | | | E.K.Arulkarthick | | |
| | | | G.Praveensanthoshkumar | | |
| | | | R.Monica | | |
| | | | Mr.G.Rathanasabhpathy | | |
| | | | Ms.V.Parameshwari | | |
| 16 | 2022-23 | 202241050984 A | P.Logamurthy | Close Monitoring of patient medication and automated medication dispenser using IoT | Published |

| | | | | | |
|----|---------|-----------------|---------------------------|---|-----------------------------|
| 17 | 2022-23 | 202241059372A | T.Jayachandran | Automatic Patient Respiration and Temperature Monitoring in Tele Health using IoT | Published |
| | | | T.G.Dhaarani | | |
| | | | P.Kokila | | |
| | | | V.Logeswari | | |
| | | | R.Monica | | |
| | | | E.K.Arulkarthick | | |
| | | | D.Anandakumar | | |
| 18 | 2022-23 | 20224105937986A | T.Jayachandran | Design of Automatic Welding Machine | Applied |
| 19 | 2022-23 | 374693-001 | Dr C.N.Marimuthu | IOT Based Wearable Medical Monitoring Device | Published(Awarded) |
| 20 | 2022-23 | 374690-001 | Dr C.N.Marimuthu | AI and IOT Based Smart Walking Stick for Visually impaired people | Published(Awarded) |
| 21 | 2022-23 | 202241067185 | Dr C.N.Marimuthu | Novel Technique of bioflavonoid isolation from natural sources | Published |
| 22 | 2022-23 | 202241069537 A | Dr.R.Murugasami | Emission-Free Embedded Based Vehicle with Solar Charging | Published |
| | | | M.Priyadharsini | | |
| | | | C.Prabhu | | |
| | | | G. Praveen Santhosh Kumar | | |
| | | | P.S.Niji | | |
| 23 | 2022-23 | 377800-001 | Dr.D.Arulanantham | IOT Based device for controlling Electrical Appliances | Published(Awarded) |

| | | | | | |
|----|---------|----------------------------------|---------------------|---|--|
| 24 | 2022-23 | 20234103874 | Dr.D.Arulanantham | A Contemporary Technique for Lung Disease prediction using deep learning | Published |
| 25 | 2022-23 | 202341017125 | Ms.V.Logeswari | Automatic face recognition and virtual assistant through IoT and AI | Published |
| 26 | 2022-23 | 383638-001 | Mr.T.Jayachandran | Automatic rotatable Laptop table | Applied |
| 27 | 2022-23 | 378937-001 | Mr.T.Jayachandran | LPG level monitoring and Automatic booking system Integrated with Trolley | Published(Awarded) |
| 28 | 2022-23 | 380926-001 | Mr.T.Jayachandran | IoT based sanitation cabinet for electronic devices | Published(Awarded) |
| 29 | 2022-23 | 383825-001 | Mr.T.Jayachandran | Solar panel Cleaning Robot for Industry | Applied |
| 30 | 2022-23 | 383825-001 | Mr.E.K.Arulkarthick | IOT BASED AGRICULTURAL & HORTICULTURAL SPRAYER | Published(Awarded) |
| 31 | 2023-24 | 376907-001 | Dr.C.N.Marimuthu | Antenna Signal Monitoring System | Published(Awarded) |
| | | | Dr.R.Murugasami | | |
| | | | Mr.G.Prabhakaran | | |
| 32 | 2023-24 | UK design Application no 6296690 | Dr.C.N.Marimuthu | Wearable Textile Antenna For Telemedicine Applications | Published(Awarded) (UK Design patent) |
| | | | Dr.R.Murugasami | | |
| | | | Mr.G.Prabhakaran | | |
| 33 | 2023-24 | 403139-001 | Ms.V.Parameshwari | IOT BASED SOLAR POWER AGRICULTURE ROBOT | Published(Awarded) |
| 34 | 2023-24 | 527230 | Mr.G.Prabhakaran | Modified Two stroke Gasoline Engine with Transfer Chamber | Utility Patent Granted |