



KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous)

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

RESEARCH AND DEVELOPMENT CELL

PATENT, INDUSTRIAL DESIGNS & COPY RIGHT DETAILS

LIST OF PATENTS/INDUSTRIAL DESIGN FILED & PUBLISHED

Sl. No	Title of the Invention	Date of Filing	Date of publication	Name of Inventor	Application Number
Academic Year: 2024-2025					
1	PV Fed DC Micro Grid System for Integration of PMSM	21.08.2024	30.08.2024	Dr.G.Saravanan Dr.V.S.arulmurugan Dr.M.Murugesan R.Gopalakrishnan VJ.Vijayalakshmi T.Ramesh M.Inba Arasi S.Suba M.Dinesh R.Aravindh Dr.P.Venkatesan	202441063037
2	Emergency Shutdown of Wind Turbines under Certain Conditions Affecting Grid using IoT	10.11.2024	15.11.2024	Dr.G.Saravanan T.Sivalingam J.Priyadharshini S.Revathi Dr.S.Ravichandran Dr.S.Selvaganapathi Dr.S.Sengottaian N.Venkatraman M.Inba Arasi M.Padmavathi A.Jainulafdeen S K Deepa	202441086569

Academic Year: 2023-2024					
1	Method for Producing Electronic Circuit Dot Boards from Banana Tree Residues	10.06.2024	14.06.2024	KNCET Dr.R.Asokan T.Rajamanikandan Dr.P.Arul Dr.T.Sengolrajan K.Kumar M.Geethalakshmi S.Lalitha T.Dineshkumar S.Harikumar Y.Vahidhabanu R.Manikandan and R.Deebika	202441044712 A
2	Innovative Process for Manufacturing Banana Fiber-based Dielectric Capacitor	10.06.2024	14.06.2024	KNCET T.Rajamanikandan Dr.P.Arul T.Ashok K.Karthik P.Valarmathi R.Madanachitran V.Srinath K.Bashkaran S.Saranya P.Valakmathi R.Palanikumar and C.Gowrishankar	202441044697 A
3	Eco-Friendly Paint and Electrical Insulation Liquid from Lignin and Tannin Extracted from Banana Sheath	10.06.2024	14.06.2024	KNCET T.Rajamanikandan Dr.P.Arul Dr.R.Shankar Dr.S.Kavipriya Dr.R.Saravanan Dr.P.Prabhu Dr.N.Sridhar S.Satheeshkumar K.Yazhini R.Gopalakrishnan S.Revathi C.P.Niranjana K.M.Swarna Devi	202441044698 A

4	Artificial Intelligence-based Angle Changing Parabolic Solar dryer with Automatic Sun Tracking Clima	10.06.2024	14.06.2024	T.Rajamanikandan Dr.J.Yogapriya Dr.C.Saravanabhavan Dr.S.Dhanabal Dr.M.Arivukarasi Dr.P.Preethi C.Radhakrishnan K.Karthick R.Premkumar P.Valarmathi P.Tamilnesan K.Lalitha and N.Sarmiladevi	202441044709 A
5	Enhancing Solar Air Heater Efficiency Through Innovative Flow Distribution Techniques Utilizing Guid	31.05.2024	14.6.2024	Dr.M.Vivekanandan Dr.D.Jagadeesh Dr.G.Saravanan Dr.K.Periasamy N.Kawin S.Kumaravel S.Mohankumar RA.Aravind J.Mahendran and T.Rajamanikandan	202441042464A
6	Development of Electricity Storage Device using Clay Soil and Quartz	28.06.2023	15.09.2023	T.Rajamanikandan Dr.P.Arul Dr.R.Shankar Dr.T.Sengolrajan Dr.N.Sridhar K.Karthik P.Tamilnesan S.Revathi R.Manikandan M.P.Iniya M.P.Indhu	202341043400A
Academic Year: 2021-2022					
1.	Design and Development of an Intelligent Wild Animal Drive Back System for Crop Protection based on Artificial Intelligence and Deep Neural Network	09.05.2022	20.05.2022	KNCET T.Rajamanikandan Dr.R.Asokan Dr.P.Arul Dr.R.Shankar Dr.T.Sengolrajan R.Gopalakrishnan P.Tamilnesan K.S.Vignesh	202241026622A

2.	Cellular IOT Irrigation System using Machine Learning Algorithms and Nordic	02.02.2022	11.02.2022	Dr.R.Asokan Dr.J.Yogapriya Dr.M.Dharmalingam Dr.R.Shankar Dr.B.Umarani Dr.T.Sengolrajan Dr.T.Yuvaraja Mrs.T.Meenal Mr.R.Gopalakrishnan Mr.S.Ragul	202241005541
3.	Smart Vision based Iron Box using Deep Learning Algorithms	17.06.2021	16.07.2021	Dr.J.Yogapriya DR.M.Dharmalingam Dr.R.Shankar Dr.C.Saravanabhavan Mr.M.Dineshkumar Mrs.S.Revathi Mr.A.Sampath Mr.S.Ragul Dr.K.Amudha Dr.B.Umarani	202141026992
Academic Year: 2020-2021					
1.	Handy Sanitizer Dispenser with Social Distancing Alert Device	16.10.2020	30.10.2020	Dr.P.Booma devi Dr.K.Sabeetha Dr.J.Booma Mr.Manish Khodaskar R.Priyanka Dr.K.Kanimozhi Dr.B.Raja Mohamed Rabi Mr.K.Dinakaran Mr.S.K.Kabdesb Dr.S.B.Riswanali Dr.K.Syed Jafar Mr.Rahul Bhaurao Diwate	202041045227

2.	Artificial Intelligence based Battery Management System for Electric Vehicles to Forecast State of Charge	11.01.2021	22.01.2021	Mr.V.Chandran Dr.M.G.Sumithra Dr.T.Sengolrajan Dr.Sanjeev Kumar Mr.M.Manjukavi Ms.Pooja Bhat Mr.R.Sasi Lakshmikhanth Dr.M.Madhusudan Mr.Vishal Polara	202141001148
3.	An Intelligent ECG Measuring Wrist Band for Cardiac Arrest Patient by using Machine Learning Algorithm	27.04.2021	07.05.2021	Dr.P.Pandiaraja Dr.J.Yogapriya Dr.K.Muthukanickam Mr.N.Premkumar Mr.R.Palanikumar Dr.T.Sengolrajan Dr.S.Punitha	202141091221
Academic Year: 2018-2019					
1.	Elongated Hexagonal Pyramid Shaped Portable Solar Dryer	05.07.2018	13.07.2018	Dr.P.Arul Mr.R.Gopalakrishnan Mrs.B.Saranya Mr.T.Rajamanikandan Mr.S.Pradeevraj Mr.A.Vairamani Mr.T.Ravikumar Mr.P.Sathishkumar	201841025031
2.	Low Cost Two In One Mosquito Catcher and Terminator	05.07.2018	13.07.2018	Dr.R.Asokan Dr.P.Arul Mr.K.Mohanraj Ms.B.Saranya Mr.T.Rajamanikandan Mr.S.Kavin Mr.PKB.Aadhithya Vignesh Mr.M.Madhankumar Mr.R.Gokul Mr.M.Sridhar	201841025029

3.	Electro-Hydraulic Compression Based Pseudo Stem Juicer	05.07.2018	13.07.2018	Dr.R.Asokan Dr.P.Arul Mr.K.Jawahar Mr.M.Saravanan Mr.T.Rajamanikandan Ms.B.Saranya Mr.S.Manojkumar Mr.B.Karthick Ms.B.Pradeepa	201841025030
4.	Automatic Agriculture Crop Protection System From Monkeys In Hilly Area	05.07.2018	13.07.2018	Dr.K.Kalaiselvan Mr.R.Gopalakrishnan Mr.T.Rajamanikandan Mrs.B.Saranya Ms.S.Yokeswari Ms.S.Sandhiya Ms.A.Thenmozhi Ms.V.Thenmozhi Mr.A.Purushoth Mr.M.Rubeshkumar	201841025032
Academic Year: 2017-2018					
1.	Portable and Dismantable Channel Conveyor for Field Transportation of Banana	15.02.2018	23.08.2019	Dr.S.Uma Dr.V.Kumar Dr.R.Asokan Mr.T.Rajamanikandan	201841005897
2.	Eco Friendly Energy Efficient Vacuum Light switch	17.11.2017	24.11.2017	Mr.R.Gopalakrishnan, Mr.K.Karthik Mr.T.Rajamanikandan	201741041093
3.	Zero Burn Zero Emission Hydraulic Powered Vehicle	17.11.2017	24.11.2017	Mr.T.Rajamanikandan Mr.A.Anban Mr.S.Manojkumar	201641041091
Academic Year: 2016-2017					
1.	Plug Outage Cylindrical Shaped Rotary Switch Board	22.09.2016	30.09.2016	Mr.T.Rajamanikandan	201641032301

INDUSTRIAL DESIGNS:

Sl.No	Title of the Design	Date of Filing	Name of Inventor	Application number
Academic Year: 2023-2024				
1.	Baby Monitoring Electronic Device/06-01	31/05/2024	T.Rajamanikandan Dr.P.Arul K.Karthik S.Revathi R.Baskar A.Suresh Kumar	418609-001
2.	Medicine Tablet Holder Keychain /09-03	31/05/2024	T.Rajamanikandan T.Ashok Dr.R.Saravanan M.Sakthivel S.Gowtham D.Dhavasankaran A.Karthick	418610-001
3.	Manual Seeding Machine/15-03	31/05/2024	Dr.M.Dharmalingam Dr.R.Shankar Dr.T.Sengolrajan K.Mohanraj B.Sasivarman M.P.Indhu M.P.Iniya P.Tamilnesan	418611-001
4.	Soap and Odor Barholding stand/09-01	31/05/2024	T.Rajamanikandan Dr.P.Arul Dr.S.Kavipriya K.Anguraju P.Thenmozhi V.Dhanalakshmi	418614-001
Academic Year: 2018-2019				
1.	Simple Solar Lantern	05/07/2018	Dr.P.Arul	307385
2.	Umbrella Bicycle with Battery Operated Wiper	05/07/2018	T.Muthukumar	307382
3.	Simple Solar E-Cycle	05/07/2018	Dr.P.Arul	307386
4.	Smart Baby Cradle	05/07/2018	T.Rajamanikandan	307384
5.	Simple Crop Cutter	05/07/2018	T.Rajamanikandan	307383
6.	Remote Controlled Solar Gross Cutter	05/07/2018	T.Rajamanikandan	307387