

**K.L.N COLLEGE OF ENGINEERING**( An Autonomous Institution)  
Intellectual Property Rights Cell (IPR Cell)

<u>S.No</u>	<u>Application Number</u>	<u>Title of the Patent</u>	<u>Applicant Name</u>	<u>Department</u>	<u>International Patent</u>	<u>Indian Patent</u>	<u>Date of filing</u>	<u>Current Status</u>
1	422965-001	Solar PV Panel Integrated Electric Car	1.Dr.Sanjay B.Joshi 2.Dr.SatheshPandian D. 3.Dr. Amritansh Sagar 4.Dr.Fatima M Inamdar 5. Mrs.D.Thangamari 6.Mr.Srinivasan G	-	No	Yes	11/7/2024	Granted
2	6372127	Smart Brain Monitoring Headset	Dr. Satheesh Pandian Duraira	Mech	No	Yes	14/6/2024	Granted
3	419724-001	Pedal Pump	1. K.L.N. COLLEGE OF ENGINEERING 2. DR. S. PARTHASARATHY 3. MR. S. NALLATHAMBI 4. MR. P. SATHYA NARAYANAN 5. MR. T. RAGHUL 6. MR. R. THANGASANKARAN	EEE & Mech	No	Yes	12/6/2024	Filed
4	202441042689	DATA-DRIVEN STRATEGIES FOR OPTIMIZING STUDENT RETENTION AND ACADEMIC OUTCOMES BASED ON NEP POLICIES	Mr. Arul Selvan M	CSE	No	Yes	1/6/2024	Published
5	202441041695	IOT EMBEDDED DRONE FOR HARVESTING OF HONEY TO EMPOWER THE TRIBAL PEOPLE FOR THEIR SUSTAINED LIVELIHOOD	1 . Dr.A.UMARANI 2 . Dr.S.BALAMURUGAN 3 . Dr. S. NAGAMMAI 4 . Dr. D.PRADEEP KANNAN 5 . P.RAVIKUMAR	EIE & AIDS	No	Yes	29/5/2024	Published
6	202441040765	AUTOMATED TRIPLE COCONUT SCRAPER	K.L.N. COLLEGE OF ENGINEERING	Mech	No	Yes	25/5/2024	Published
7	202441044828	AI-Enhanced Educational Game for Teaching Financial and HR Management to students	Dr.R.Karthick	CSE	No	Yes	18/5/2024	Published

8	414650-001	IoT based Paralysis Treatment Device.	Dr.A.Umarani	EIE	No	Yes	24/4/2024	Filed
9	202441037316	“AI-Powered Financial and Human Resource Management Integration”	Dr.R.Karthick	CSE	No	Yes	22/4/2024	Published
10	414301-001	ARTIFICIAL INTELLIGENCE BASED NERVE ACTIVATION DEVICE FOR PARALYSIS TREATMENT	Dr.S.Balamurugan	AIDS	No	Yes	19/4/2024	Granted
11	202441040768	“Performance Management System for Employee Evaluation and Development”	Dr.R.Karthick	CSE	No	Yes	15/4/2024	Published
12	202441037318	“AI-Powered Financial Risk Assessment System with Statistical Analysis and Machine Learning Management”	Dr.R.Karthick	CSE	No	Yes	13/4/2024	Published
13	202441038608	Solar dryer for Agricultural Harvest	Dr.R.Karthick	CSE	No	Yes	10/4/2024	Published
14	202441036588	“Adaptive Resource Provisioning in Cloud Environments using Data Mining and Machine Learning”	Dr.R.Karthick	CSE	No	Yes	5/4/2024	Published
15	202421036585	“Innovative Approaches in Surface Chemistry for the Design of Functionalized Surfaces with Tunable Properties”	Dr.R.Karthick	CSE	No	Yes	5/4/2024	Published
16	202441027153	MULTI-LAYERED CYBERSECURITY FRAMEWORK USING MACHINE LEARNING ALGORITHMS	Dr.S.Balamurugan Dr.R.Karthick	AIDS & CSE	No	Yes	1/4/2024	Published
17	202441027149	AUGMENTED REALITY CURRICULUM ENHANCEMENT TOOL FOR SUPPORTING NATIONAL EDUCATION POLICY GOALS	Mrs.M.Sasikala Dr.R.Karthick	CSE	No	Yes	1/4/2024	Published
18	412047-001	IOT BASED CYBER SECURITY DATA ANALYTIC DEVICE	1.Dr.P.Prem Kumar 2. Dr.S.Subashini 3.Mrs.S.Yoheswari 4.Mrs.K.Usharani 5.Mrs.P.Divya Bharathi 6.Mrs.R.Poornima Priyanka	CSE	No	Yes	30/3/2024	Granted

19	411798-001	RFID AND IOT BASED ANIMAL TRACKING STRAP	1.Mr.D.Pravin Kumar 2. Mr.J.Sulthan Alikhan 3.Mrs.N.Gajalakshmi 4.Mrs.K. Vanitha Mani 5.Ms.S.Sangamithra 6.Mrs.S.Maria Sobana	CSE	No	Yes	28/3/2024	Granted
20	202441033677	“Predictive Data Analytics Framework for Big Data Management in Cloud Environments”	Dr.R.Karthick	CSE	No	Yes	27/3/2024	Published
21	202441027153	“Multi-Layered Cybersecurity Framework using Machine Learning Algorithms”	Dr.R.Karthick	CSE	No	Yes	24/3/2024	Published
22	411398-001	SMART VEGETABLE GRADING MACHINE USING DEEP LEARNING	1.Dr.S.Miruna Joe Amali 2. Mrs.S.Venkata Lakshmi 3.Mrs.V.Karpagam 4.Mrs.R.Kirubahari 5.Mrs.G.Rajeswari 6.Mrs.D.Thangamari	CSE	No	Yes	22/3/2024	Granted
23	202441028373	“EFFICIENT INTEGRATION OF LIGHTWEIGHT PMSM TECHNOLOGY IN HYBRID ELECTRIC VEHICLES FOR ENHANCED PERFORMANCE AND RANGE OPTIMIZATION”	Dr.R.Karthick	CSE	No	Yes	22/3/2024	Published
24	202441028767	“Deep Learning Approaches with Built-in Risk Management for High-Fidelity Share Market Prediction”	Dr.R.Karthick	CSE	No	Yes	22/3/2024	Published
25	202441035592	Nanotechnology-Based Anti – Clogging Mechanism for Borewell Filters	Dr.R.Karthick	CSE	No	Yes	22/3/2024	Published
26	202441032277	“Pyrolysis-Based Plastic Waste to Energy Conversion System”	Dr.R.Karthick	CSE	No	Yes	21/3/2024	Published
27	202441029739	“Earthquake Early Prediction System with Deep Learning and IoT Integration Based on Animal EEG Data Patterns”	Dr.R.Karthick	CSE	No	Yes	19/3/2024	Published

28	202441019431	AI-BASED RANGE PREDICTION FOR ELECTRIC VEHICLES TO IMPROVE USER EXPERIENCE	Mr. D. Pravin Kumar Mr. Arul Selvan M	CSE	No	Yes	15/3/2024	Published
29	202441028784	Optimizing Pentanoic Acid Concentrations in Biodegradable Plastic Textiles through Machine Learning Predictions	Dr.R.Karthick	CSE	No	Yes	13/3/2024	Published
30	202441033205	“AI-Enhanced English Language Learning Platform”	Dr.R.Karthick	CSE	No	Yes	13/3/2024	Published
31	202441032278	“Mystical Self-Healing Bricks: Enchanting AI-Infused Materials that Repair Cracks and Damage Autonomously”	Dr.R.Karthick	CSE	No	Yes	7/3/2024	Published
32	202441027149	“Augmented Reality Curriculum Enhancement Tool for Supporting National Education Policy Goals”	Dr.R.Karthick	CSE	No	Yes	5/3/2024	Published
33	202411015493	“Drone-Assisted Bio-Organic Spraying System for Sustainable Weed Control in Agriculture”	Dr.R.Karthick	CSE	No	Yes	24/2/2024	Published
34	202441015530	Vehicle-to-Grid Integration: Advanced Energy Management System for Electric Vehicles Using Deep Learning	Dr.R.Karthick	CSE	No	Yes	22/2/2024	Published
35	6345672	Health Monitoring Robot	Mr. Arul Selvan M	CSE	UK Patent	No	19/2/2024	Granted
36	202441013663	Deep Learning-Driven Cloud Platform for Intelligent English Literature Analysis	Dr.R.Karthick	CSE	No	Yes	18/2/2024	Published
37	202441027151	“Agro AI-Spray: Autonomous Pest Management System Integrating IoT and Machine Learning”	Dr.R.Karthick	CSE	No	Yes	18/2/2024	Published
38	202411012993	“Intelligent Pesticide Application System for Sustainable Agriculture using Machine Learning”	Dr.R.Karthick	CSE	No	Yes	15/2/2024	Published

39	202441021994	“Artificial Intelligence based Virtual Reality Therapy Sessions for Mental Health Treatment”	Dr.R.Karthick	CSE	No	Yes	15/2/2024	Published
40	202441029722	“Dynamic Grid Interaction Protocol Enhanced with Artificial Intelligence for Electric Vehicle Integration”	Dr.R.Karthick	CSE	No	Yes	15/2/2024	Published
41	202441009997	AUTONOMOUS SOLAR PANEL TILTING DEVICE AND METHODS OF IMPROVING POWER REGENERATION THEREOF	K.L.N. College of Engineering	Mech	No	Yes	14/2/2024	Published
42	202441007415	ARTIFICIAL INTELLIGENCE BASED PRE CANCER DIAGNOSIS SYSTEM AND ALERT MECHANISM	Mr. ARUL SELVAN M	CSE	No	Yes	3/2/2024	Published
43	202441011948	MACHINE LEARNING -ENABLED FAST CHARGING SYSTEM FOR ELECTRIC VEHICLES WITH IOT INTEGRATION	Dr.R.Karthick	CSE	No	Yes	2/2/2024	Published
44	202421022611	AI-Driven Statistical Analysis of Social Media Data for Enhanced Event Promotion and Audience Interaction	Dr.R.Karthick	CSE	No	Yes	2/2/2024	Published
45	202441028375	“A Sensor-Based Walking Aid Enhanced with Artificial Intelligence for Elderly Individuals”	Dr.R.Karthick	CSE	No	Yes	2/2/2024	Published
46	202411004522	CLUSTER ELECTRIC VEHICLE CHARGING BEHAVIOR OPTIMIZATION METHOD BASED ON DEEP REINFORCEMENT LEARNING	Dr. R.Lakshmi	CSE	No	Yes	23/1/2024	Published
47	202441011184	“AI based system for providing a multi-dimensional human resource allocation adviser”	Dr.R.Karthick	CSE	No	Yes	22/1/2024	Published
48	202441019961	“Smart IoT Necklace for Women's Safety and Protection”	Dr.R.Karthick	CSE	No	Yes	22/1/2024	Published
49	202441009710	“Artificial Intelligence-Based News Quick Report Generation Method and Device”	Dr.R.Karthick	CSE	No	Yes	13/1/2024	Published
50	202431017151	Integrated Cooling System for High- Temperature Operation of Electric Vehicle Fuel Cells using deep Learning	Dr.R.Karthick	CSE	No	Yes	13/1/2024	Published

51	202441004200	“Emergency Charging Service for Electric Vehicles Equipped with Deep Learning and IoT-Based Efficient Energy Recycling”	Dr.R.Karthick	CSE	No	Yes	5/1/2024	Published
52	202441017150	“Hypertension Elderly Exercise Prescription Recommendation Method Based On Deep Learning”	Dr.R.Karthick	CSE	No	Yes	5/1/2024	Published
53	6324188	Automatic Seed Sowing Robot	Dr. Karpagavalli Paramasivam, Sugumari Thiruselvam	ECE	Yes	Yes	6/11/2023	Published
54	202341067476	SMART SYSTEM FOR MEASURING POWER QUALITY, MAXIMUM DEMAND, POWER FACTOR AND AVOIDING PENALTY THEREOF	1 . K.L.N. COLLEGE OF ENGINEERING 2 . Dr.K.GNANAMBAL 3 . Dr.S.PARTHASARATHY 4 . Dr.S.MANOHARAN	EEE	No	Yes	9/10/2023	Published
55	202341052576	-	K.L.N. College of Engineering	Mech	No	Yes	4/8/2023	Awaiting Complete spec
56	383166-001	SOLAR ELECTRIC VEHICLE	DR J RAJESH BABU	Mech		Yes	4/6/2023	Granted
57	202341020346	-	-	ECE	No	Yes	23/3/2023	Filed
58	381066-001	FOUR WHEELED TWO-SEATERS IN CAMPUS ELECTRIC VEHICLE	Dr.P.Udhayakumar	Mech	No	Yes	8/3/2023	Granted
59	202241068099	Experiments on ABS Cellulose Composite	K.L.N. College of Engineering	Mech	No	Yes	26/11/2022	Published
60	202241065762	MACHINE LEARNING AND IoT APPROACHES FOR PROBABILISTIC METHOD IN APPLIED MATHEMATICS FOR AGRICULTURAL TRACKING FARMING SYSTEM	Dr. P. Udhayakumar	Mech	No	Yes	16/11/2022	Published
61	202241064838	Conveyor System for Assembling & Stacking Sliced Food Products	Dr. P. Udhayakumar	Mech	No	Yes	12/11/2022	Published
62	202241025614	HYBRID MICRO GRID TOPOLOGY SYSTEM FOR RURAL AREA	Dr.G.Ramesh, Dr.R.Karthick	IT & CSE	No	Yes	2/5/2022	Published

63	202241019899	AUTOMATIC CRIME DETECTION SYSTEM FOR PUBLIC SAFETY IN CROWD SCENARIO	1 . Dr. P. KARPAGAVALLI 2 . Dr.V. KEJALAKSHMI 3 . Dr. R. JEYANTHI 4 . Mrs. T. SUGUMARI	ECE	No	Yes	1/4/2022	Published
64	202241016028	LASER BASED HYDRAULIC CONTROLLED MACHINE AND METHODS OF LAND LEVELLING AND PLOUGHING THEREOF	1.K.L.N. COLLEGE OF ENGINEERING 2.Dr. S.PARTHASARATHY 3.Dr. A.V. RAM PRASAD 4 Prof. S.NALLATHAMBI	EEE & Mech	No	Yes	23/3/2022	Granted
65	202141026550	SEWAGE BLOCKAGE DETECTION AND REMOVAL SYSTEM AND METHODS OF DESCALING THEREOF	1 . K.L.N. COLLEGE OF ENGINEERING 2 . Dr. S. PARTHASARATHY 3 . Prof. S. NALLATHAMBI 4 . Dr. D. PRADEEP KANNAN	EEE, EIE, Mech	No	Yes	15/6/2021	Under Examination
66	CN113212044A	A smart classroom teaching aid system	Dr.P.Ganesh Kumar	IT	Yes	No	1/6/2021	Published
67	CN112667026A	A handheld operation terminal based on a smart classroom	Dr.P.Ganesh Kumar	IT	Yes	No	21/12/2020	Published
68	202041006805	A DEVICE FOR REAPING FRUIT ON A TREE	Allinnov Research and Development Private Limited	IT	No	Yes	17/2/2020	Granted
69	CN111460128B	A computerized adaptive test method	Dr.P.Ganesh Kumar	IT	Yes	No	14/11/2019	Granted
70	CN111061884B	A method for constructing a K12 education knowledge graph based on DeepDive technology	Dr.P.Ganesh Kumar	IT	Yes	No	14/11/2019	Granted
71	CN112801098B	A mathematical symbol recognition method based on contour technology	Dr.P.Ganesh Kumar	IT	Yes	No	14/11/2019	Granted
72	CN111126051B	A method for automatically calibrating test questions and knowledge points	Dr.P.Ganesh Kumar	IT	Yes	No	14/11/2019	Granted
73	CN111125443A	A method for online updating of a test question bank based on automatic deduplication	Dr.P.Ganesh Kumar	IT	Yes	No	14/11/2019	Published

74	201941005992	MOTORISED VERTICALLY ADJUSTIBLE BLACK-BOARD	G.M. NAGARAJAN	Mech	No	Yes	15/2/2019	Published
75	201741041658	IOT BASED WATER FERTIGATION SYSTEM AND A METHOD THEREOF	SETHURAMALINGAM, Kamalesh	IT	No	Yes	21/11/2017	Granted
76	201641031942	SMART PILL TRAY	1 . ANTONY LOURDU GRIFFIN 2 . R M KANNAN	Mech	No	Yes	20/9/2016	Published
77	CN103338189A	Data sharing control device with multiple communication protocol	Dr.P.Ganesh Kumar	IT	Yes	No	16/7/2014	Granted
78	CN203289478U	Data sharing control device with multiple communication protocol	Dr.P.Ganesh Kumar	IT	Yes	No	13/11/2013	Granted