

Dr. Mahalingam College of Engineering and Technology, Pollachi-642 003
(An Autonomous Institution)

Office of Dean Research & Innovation

Indian Patent Rights Summary Details

S.No	Patent Details	Academic Year (2017-August 2023)
1.	Number of Patents Published	86
2.	Number of Patents Granted	10
Total		96

Indian Patent Rights Details (2017- August 2023):

August 2023

S.No	ApplicationNo.	Name of the Inventors & Department	Title of the Patent	Type of IPR	Month & Year of Publication	Status
1.	385639-001	Dr. S Ramakrishnan/IT Dr. Ponni Alias Sathya/IT Dr. S.K.Ashok/Auto Ms. D. Janani/IT Ms. N. Sumathi/CSE	Household Grinding Machine	Indian Patent Office	Aug 2023	Granted
2.	380824-001	Dr. J. Thimmia Raja, / IT Dr.A.S.Muthunantha Murugavel /IT	Currency Note Counting Machine	IPO, Chennai	Mar 2023	Granted
3.	380828-001	Dr.M.Kaliamoorthy, Prof /EEE	Dual Switch Coupled Inductor Converter	IPO, Chennai	May 2023	Granted

S.No	ApplicationNo.	Name of the Inventors & Department	Title of the Patent	Type of IPR	Month & Year of Publication	Status
4.	382119-001	Dr Kishore B, AP(SG)/EEE	Agriculture Robot For Sowing Seeds	IPO, Chennai	Mar 2023	Granted
5.	382619-001	Dr.P.T.Kalaivani, Dr.Vishal Gangadhar Puranik, Dr.A.P.Janani, Dr.Mk Jayanthi Kannan Dept of IT	Smart Phone Charger	Indian Patent Office	Mar 2023	Granted
6.	348928-001	Dr.Kishore B/EEE	A supporter for portable terminal	IPO, Chennai	Dec 2022	Granted
7.	202141016329	Dr.M.Selvakumar, Dr.M.Thirunavukkarasu, Mr.R.Vishnu Ramesh Kumar, Dept. of Automobile Dr.B.Kishore /EEE	Self-charging bi-cycle with solarpanel	IPO, Chennai	Aug 2022	Granted
8.	2020102000	Dr.C.Kalamani /ECE	Low radiation wearable Microstripantennas for embedded skin patch applications	Australian Patent office	Aug 2022	Granted
9.	201941019354 A	Dr.M.Selvakumar /Auto	Titanium-titanium boride composite as a bio material for hip, knee implants	IPO, Chennai	Jun 2021	Granted
10.	2020103913	Dr.Karthick Jayaram/Auto	Method of synthesizing hybrid composite metal with natural ceramic and joining thereof	Australian Patent office	Jan 2021	Granted

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11.	394424-001	Dr.M.Jayaraj / Mech Dr.N.Shanmuga Sundaram/ Mech Mr.K.Vijayakkannan/ Mech Mr. S. V. Gurupranes/ Mech Mr. S. Gnanakumar/ Mech Dr.Rama Thirumurugan / Mech	Coconut Deshelling Machine	IPO, Chennai	Sep 2023	Published
12.	202341055636	Dr.V.Lakshminarayanan /EIE Mr. P. Kathirvel /EIE Dr.N.Shanmuga Sundaram, / Mech Mr.K.Vijayakkannan/ Mech Dr.M.Jayaraj/ Mech	Automated Waste Bin Management Through IOT And AI For Efficient Waste Collection	IPO, Chennai	Aug 2023	Published
13.	202341039226 A	Dr.V.Lakshmi Narayanan /ECE Dr.K.Rameshkumar /ECE P. Kathirvel/EIE	Artificial Intelligence in Medical Decision Support System	Indian Patent Office	July 2023	Published
14.	202341044356	Dr.K.Umamaheswari	A system and method for battery management and green energy storage	Indian Patent Office	July 2023	Published
15.	202311046496	Dr.P.Vivekanandan, Prof/AI & ML	Method for Improving machine learning model performance with generativr adversarial networks	Indian Patent Office	July 2023	Published
16.	202341046834	Dr.P.Vivekanandan, Prof/AI & ML Ms.M.Bagavathi Priya ,AP/AI & ML Ms.V.Shanmugaveni, AP/Cys Mr.M.Sakthivadivel, AP/Cys	Programmable Smart Kitchen Container	Indian Patent Office	July 2023	Published
17.	202341042928	Dr. M.Selvakumar Dr. M.Thirunavukk arasu	An Arrangemen for Detecting Surface defects of Engine Pison During Production Casting and Method Thereof	Indian Patent Office	June 2023	Published

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18.	379888-001	J Thimmia Raja/IT	IoT based Smoke and Heat	Indian Patent Office	May 2023	Published
19.	385639-001	Ms.N. Sumathi / CSE	Household Grinding Machine	Indian Patent Office	May 2023	Published
20.	378817-001	Dr.Kishore B/EEE	IOT Streetlight Controller Device	IPO, Chennai	May 2023	Published
21.	202341026490	Ms. T.Sathiyapriya /ECE	Automatic oil filling device for temple DIYAS	Indian Patent Office	Apr 2023	Published
22.	202341028555	Dr. A. Noble Mary Juliet /CSE	A system and apparatus of marine robotics to deep-sea specimen for underwater Manipulative actions	Indian Patent Office	Apr 2023	Published
23.	368818-001	Dr.M.Kaliamoorthy/EEE	Brushless DC Motor for Electric vehicle	IPO, Chennai	Apr 2023	Published
24.	202341019979	Mrs. Kiruthikka.D.C, Mrs. Nandhini.S, Dept of AI & DS	Earthquake Early Prediction And Warning System In Smart Cities Based On Deep Learning And IOT	IPO, Chennai	Mar 2023	Published
25.	202241015522	Mr. Anthony Jesudurai S/EEE	A System For Power Transmission Tower Through Internet Of Things	IPO, Chennai	Mar 2023	Published
26.	202341007827	Dr.L.Chitra / EEE	Solar powered robotic vehicle for heavy metal ions detection in water employing machine vision	IPO, Chennai	Mar 2023	Published

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27.	202241015522	Dr.S.Anthony Jesudurai/EEE	A System for Power Transmission Tower through Internet of Things	IPO, Chennai	Mar 2023	Published
28.	202241061596	Dr K Rameshkumar,/EEE	Automated Electrical Venturi Injector for Drip Irrigation in Agriculture with Embedded Features	IPO, Chennai	Mar 2023	Published
29.	379605-001	Dr K Rameshkumar /EEE	Personal Assistant Robot	IPO, Chennai	Mar 2023	Published
30.	202341008631	Dr.R.Ramesh/S&H	Develop a Trusted Blockchain Auction platform with preferred pricing Recommendations using Machine learning	IPO, Chennai	Feb 2023	Published
31.	353413-001	Dr.K Rameshkumar/EEE	A Multipurpose Solar Taillight For Bicycle	IPO, Chennai	Jan 2023	Published
32.	202341004015	Mr.M.Vijayakumar Ms.M.Bhagavathipriya, Ms.G.Gayathri,Dept of AI&DS	A Multifunctional Shopping Tramcar	IPO, Chennai	Jan 2023	Published
33.	202241056622	Mr.J.Nagarajan/EEE	A Deep Convolutional Neural Network System For Lithium - Ion Battery	IPO, Chennai	Oct 2022	Published
34.	202241044746 A	Dr.S.Ramakrishnan, Dr.A.S.Muthunantha Murugavel, Dr.L.Meenachi, Dr.S.Ponni alias sathya, Dr.S.Nithya, Ms.S.Soundariya, Ms.S.Priya Varshini, Dept. of IT	Wireless wearable bio-medical device for detecting brain and heart disorder in non-clinical environment	IPO, Chennai	Aug 2022	Published

S.No	ApplicationNo.	Name of the Inventors & Department	Title of the Patent	Type of IPR	Month & Year of Publication	Status
35.	202241046378 A	B. Saravanakumar, J. Johnson William, Dept. of S&H	Hierarchically porous MN-MOFS composite with RGO as an efficient electrode material for supercapacitor application	IPO, Chennai	Aug 2022	Published
36.	202241046374 A	B. Saravanakumar, J. Johnson William, Dept. of S&H	Two dimensional CR2C MXENE decorated with COFE2O4 nanoparticles for high performance supercapacitor application	IPO, Chennai	Aug 2022	Published
37.	202221024377	Dr. M. Pandi /CSE	Machine learning based hybrid module for predicting the crop yielddepending on climatic and soil conditions	IPO, Chennai	Jul 2022	Published
38.	202221001808	Dr. M. Pandi /CSE	Deep learning techniques to assessthe network security aspects	IPO, Chennai	May 2022	Published
39.	202241023296	Sathiyamurthi P/IT Natarajan N/Civil Senthil Kumar L/Maths Ms. C. Devipriya/CSEMs. R. Dhivya /CSE	Multi-purpose detangling devicewith liquid dispenser	IPO, Chennai	May 2022	Published
40.	202241025898	Dr. N. Senthil Madasamy/CSE	IOT based smart surgery management system for hospitals	IPO, Chennai	May 2022	Published
41.	202241023295 A	B. Saravanakumar, J. Johnson William, Dept. of S&H	Synthesis of amine functionalized metal organic framework using H2FIPBB ligand for energy storage applications	IPO, Chennai	May 2022	Published

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42.	202241013316 A	Dr.D.Shanmugam Mr.K.R.Ranjith Dept. of Automobile	A natural fibre based composite anda process to obtain the same	IPO, Chennai	April 2022	Published
43.	202241017800	Mr.P.Kathirvel, Dr.K.Vijayakumar Dr.K.Rameshkumar /EEE Mr.P.E.Kamalakkannan, Mr.T.Gowtham, Mrs.V.Karpagam Mr.A.Venkatesh, Mr.G.Karthikeyan, Dept. of EIE	Detection of beetles in coconut grove	IPO, Chennai	April 2022	Published
44.	202241017796	G.Anandhi /IT	Touchless ATM utilizing mobile phones with instant pin numbergeneration	IPO, Chennai	April 2022	Published
45.	202241025599	Mr.Anthony Jesudurai S/EEE	A data processing device for electricvehicle based on IOT	IPO, Chennai	Mar 2022	Published
46.	202241007240	A.P.Janani /IT	System and method for generatingcybersecurity analytics for enterprise data using threat based artificial intelligence	IPO, Chennai	Mar 2022	Published
47.	202041039231	B. Saravanakumar /S&H	Zinc oxide/carbon nanocomposite process of preparation and thereof.	IPO, Chennai	Mar 2022	Published
48.	202241008807	Dr. K. Srinivasan Mr. P.S. Sathish Kumar Mrs. Latha ChinnaswamyMr. A. Manikandan Dept. of Civil	Performance study of coconut shellaggregate concrete with bamboo reinforcement	IPO, Chennai	Mar 2022	Published

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49.	202241003802 A	Dr.D.Shanmugam, Dr.S.K.Ashok, Dept. of Automobile	Real time monitoring of vibration and automation of milling machine using IOT enabled embedded system	IPO, Chennai	Feb 2022	Published
50.	202241007338	Mr. Senthil Kumar Dineshkumar, Dr. Narayanan Natarajan, Mr. Muthusamy Mohanrasath Ms. Sivalingam Sharmila Dr. Thangavel Sakthivel Mrs. Shanmugavadivel Suthaviji, Dept. of Civil	Adjustable multipurpose storagebasket for the refrigerator	IPO, Chennai	Feb 2022	Published
51.	202141061248A	Mr. Samuel Swamidoss MK / Mech	Wireless Sensor Network for Long- term Environmental Checking for Internet of Things Application	IPO, Chennai	Jan 2022	Published
52.	353645-001	Mr.A.Venkatesh /EIE	Electric scooter for handicapped	IPO, Chennai	Jan 2022	Published
53.	202141053774	Mrs. K. Saranya / EEE	PNH-device: IOT-based ICU patientnotification and health monitoring device	IPO, Chennai	Dec 2021	Published

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54.	202141053716	Dr. T. Ayyappan, Dr.A.Hemalatha, N. V. N. Ravali, Dr. K. Srinivasan/Civil, Ms.R.Anuja /Civil, Mrs.S.Rameshwari, Mr.M.Sudharsanan /Civil,Mr. K Hareesh, Dr.S.Robert Ravi, Dr. C. Selin Ravi Kumar	Experimental studies on bananafibre with concrete composites	IPO, Chennai	Dec 2021	Published
55.	202141054387	Dr.K.Rameshkumar /EEE	Development of robotics hand fingers using worm and wheel mechanism	IPO, Chennai	Dec 2021	Published
56.	202141057852	Dr. Sudha V.K S. Sugunavathy Parthiban. D Dr. S. Bharathi Dept. of ECE	Wearable textile antenna	IPO, Chennai	Dec 2021	Published
57.	202141043312 A	Dr.N.Suba Rani/AI & DS, Dr.A.Noble Mary Juliet, Dr.M.L.Valarmathi, Dr.N.Senthil madasamy, Dr.N.Gobi, Dr.J.Bhavithra, Dr.M.Pandi Dept. of CSE	Coconut sorting machine and an artificial intelligence based methodfor evaluating the quality of coconuts	IPO, Chennai	Nov 2021	Published

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58.	202141049829A	Mr. T.Sathesh Kumar /EEE	Deep learning based fault detectionelectrical distribution network	IPO, Chennai	Nov 2021	Published
59.	202141045081	Dr. N.Gobi /CSE	Mechanical movement based extra lower door step in bus for easy access designed for elderly people	IPO, Chennai	Nov 2021	Published
60.	350142-001	Dr. L.Chitra /EEE	Ergonomic of child seat in electrictri-scooter	IPO, Chennai	Oct 2021	Published
61.	202141041223	T.Sathesh Kumar /EEE	Artificial intelligence based smart powering technique using solar tracking system	IPO, Chennai	Oct 2021	Published
62.	202141036613	Dr.K.Rameshkumar /EEE	AI based anti-theft detection in twowheelers	IPO, Chennai	Aug 2021	Published
63.	202041006012A	Dr.I.Rajendran, Dr. Rama. Thirumurugan, Dr.S.Madhusudhanan, Dr.K.Hariharan, Mr.N.Santhosh, Dept. of Mechanical	Handheld weed plucker	IPO, Chennai	Aug 2021	Published
64.	202141029313	Dr. A Noble Mary Juliet / CSE	An AI-assisted, liquid-based universal focal length adjustableeyeglasses	IPO, Chennai	Jul 2021	Published
65.	202141026200	Dr.N.Yogambal Jayalakshmi, Dr.T.Vinoth Kumar, Dr. K. Umamaheswari, Dept. of EEE	Real time based IOT enabled smartmetering system	IPO, Chennai	Jul 2021	Published

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66.	202141027057 A	Mr.P.Kathirvel, Dr.K.Vijayakumar, Mr.L.Jayaraman, M.Ganeshan/MCT Dr.K.Rameshkumar/EEE Mr.Maideen Abdhulkader Jeylani/ECE Dept. of EIE	Smart pharma drug locator	IPO, Chennai	Jul 2021	Published
67.	202141031413	T. Sathiyapriya, Mr.V. Gurunathan, Mr. A. Shafeek Dept. of ECE	Mechanical movement based extralower door step in bus for easy access designed for elderly people	IPO, Chennai	Jul 2021	Published
68.	202141021319A	Dr.M.Selvakumar, Dr.M.Thirunavukkarasu, Dept. of Auto	Cost effective convergence mechanism for self-regulating molding	IPO, Chennai	Jun 2021	Published
69.	202141020600 A	Dr.M.Selvakumar /Auto	Pugh matrix based decision makingfor the borewell rescue system	IPO, Chennai	Jun 2021	Published
70.	202141031207	Dr.B.Kishore /EEE	IOT enabled convenient digital spectrophotometer to investigateengine oil and impurities level in real time practice	IPO, Chennai	Jun 2021	Published
71.	2021102752	Janani, A. P/IT	Integrated intelligence resource andsecurity management system for cloud data centers	Australian Patent Office	Jun 2021	Published
72.	202141019750	J.Nagarajan /EEE	Machine learning-based image processing system to analyse human skin quality	IPO, Chennai	May 2021	Published

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73.	202141021703	Dr.K.Rameshkumar, Dr.A.Senthil Kumar, Dr.M.Kaliamoorthy, Mr. P. Kathirvel, Dept. of EEE	Model predictive current control of single-phase 9-level reduced switchmultilevel inverter	IPO, Chennai	May 2021	Published
74.	202141021319	Dr.B.Kishore /EEE	Cost effective congruence mechanism for self-regualting molding machine using IOT and signal processing	IPO, Chennai	May 2021	Published
75.	2021101893	Dr.N.Yogambal Jayalakshmi /EEE	Design of hybrid drone with IOT based smart battery management system	Australian Patent office	April 2021	Published
76.	202141011242A	Dr.M.Thirunavukkarasu /Auto	Advanced IAQ control system and alcohol detector for commercialvehicles	IPO, Chennai	Mar 2021	Published
77.	202141008887	Dr.M.Selvakumar, /Auto	Areca nut harvesting machinerywith pesticide sprayer	IPO, Chennai	Mar 2021	Published
78.	202141010521	Dr.N.Yogambal Jayalakshmi /EEE	Portable IOT based hybrid power generator for commercial purpose	IPO, Chennai	Mar 2021	Published
79.	202111012231	Dr.N.Yogambal Jayalakshmi /EEE	AI based hybrid leg wheel track ground mobile robot	IPO, Chennai	Mar 2021	Published
80.	202141010226 A	Dr.M.Balakrishnan /AI & DS Dr.A.B.Arockia Christopher, Mr.J.Ramprasath, Mr.N.Praveen Sundra Kumar, Dept. of IT	A fault diagnosis system and rectification method for uniformpower generation in solar powerplants	IPO, Chennai	Mar 2021	Published

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81.	202141002420	Dr.K.N.Vijeyakumar /ECE Dr.A.Rathinavelu /CSE	IOT based multi-user smart systemfor reliable water supply	IPO, Chennai	Jan 2021	Published
82.	202041053245A	R. Menaha /IT	A hybrid model for finding abbreviation definition pairs from biomedical abstracts and definitions of acronym from web	IPO, Chennai	Dec 2020	Published
83.	202041042045	Dr.Karthick Jayaram /Auto	Ecofriendly 3D printing element	IPO, Chennai	Oct 2020	Published
84.	202031027960	Dr.N.Senthil Madasamy,Dr. M.Pandi Mr.K.Srinivasan, Dept. of CSE	System on chip to trans-receive multiple frequency communication	IPO, Chennai	Sep 2020	Published
85.	202041034060	Dr. M.Pandi, Dr.S.Veeramani, Dr.N.Senthil Madasamy, Dept. of CSE	Hybrid response and traffic controlalgorithm (HRTC) based congestiondetection and control techniques in denser IOT networks	IPO, Chennai	Sep 2020	Published
86.	202041033177	Dr.Karthick Jayaram /Auto	Method for manufacturing fem bycombined FRP & metal thereof	IPO, Chennai	Aug 2020	Published
87.	202041026204 A	Dr.Karthick Jayaram /Auto	Healing aided bio-mask	IPO, Chennai	Jul 2020	Published
88.	201841040120 A	Dr.I.Rajendran, Dr. Rama Thirumurugan, Mr. E. Baskaran, Mr. M. Padmanaban,Mr. Sreejith S. Nair, Dept. of Mechanical	Flour extruder	IPO, Chennai	May 2020	Published

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89.	201841040121 A	Dr.I.Rajendran, Dr. Rama Thirumurugan, Dr. R. Gnanaguru, Mr. S. Gnanakumar, Mr. T. Vigneshkumar, Dept. of Mechanical	Induction water heater	IPO, Chennai	May 2020	Published
90.	201841040122 A	Dr.I.Rajendran, Dr. Rama Thirumurugan, Mr. N. Santhosh, Mr. K. Prabu, Mr. C. Selvasenthil Prabhu, Dept. of Mechanical	Fail-safe mechanical latching systemfor three-way tippers	IPO, Chennai	May 2020	Published
91.	202041007646 A	Dr.K.Mohaideen Abdul Kadhar, /ECE, Mr.L.Gowtham	An interactive assistive device system for visually impaired people	IPO, Chennai	April 2020	Published
92.	202041007470 A	Dr.K.N.Vijeyakumar, Dr.R.Sudhakar, Dr.Vinoth Kumar /EEE Ms.Kalaiselvi , Dept. of ECE	Switching device	IPO, Chennai	April 2020	Published
93.	202041000403	Dr. M Pandi, Dr. N Senthil Madasamy, Dr.T.Sivakumar, Dr.S.Veeramani, Mr.K.Srinivasan, Mr.P.Boopathirajan, Dept. of CSE	An application program interface forgene expression data clustering	IPO, Chennai	Mar 2020	Published

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94.	202041006184	Dr.M.Balakrishnan /AI&DS Dr.A.B.Arockia Christopher /IT	Systematic model for constant waterquality monitoring using IOT	IPO, Chennai	Feb 2020	Published
95.	201941019359	Dr.S.Ramakrishnan Dr.P.SathiyamurthiDept. of IT	A system for speech cryptographyand mutual authentication using generated neuro-chaotic randomnumbers	IPO, Chennai	May 2019	Published
96.	201841023877	Dr.R.Sudhakar, Dept. of ECE	Virtual friend for elderly/differentlyabled	IPO, Chennai	Sep 2018	Published