



NANDHA COLLEGE OF TECHNOLOGY, ERODE 52

IPR: PATENT AND COPYRIGHT PUBLISHED DETAILS

Academic Year: 2023 - 2024

S.No	IPR Category	Department	Name of the Applicant(s)/ Assignee Name	Name of the Inventor(s)	Title of the Patent	Application Number	Patent Filed Date	Patent Published Date	Current Status
1	Patent	IT	Dr. M.Karthick	Dr.M.Karthick	IoT driven structural health monitoring & damage identification using machine learning for civil infrastructures	202341053813	10.08.2023	01.09.2023	Patent published in journal & Awaiting Request for Examination
2	Patent	Science and Humanities- Chemistry	Mr. N.Vijayakumar	Mr.N.Vijayakumar	Novel Organic Nano materials for ultra-fast and ultra-sensitive sensing applications	202331056747	24.08.2023	20.10.2023	Patent published in journal & Awaiting Request for Examination
3	Patent	EEE	Mrs.Hemasilviavinothinin	Mrs.Hemasilviavinothinin	Application of a Fuzzy System to detect Electricity Faraud in Residential Buildings	202321076789 A	09.11.2023	15.12.2023	Patent published in journal
4	Patent	CSE	Dr.S.Nandagopal Mr.K.S.Muralikrishnan Mr.R.Sudhakar	Dr.S.Nandagopal Mr.K.S.Muralikrishnan Mr.R.Sudhakar	Block Chain And Smart Contract Combined Security Model To Achieve Veracity In IoT	202341084129 A	12/9/2023	1/5/2024	Patent published in journal & Awaiting Request for Examination
5	Patent	ECE&Mech	Ms.K.Poornima, Ms.S.Amsaveni, Ms.V.Vimala, G.Divyadharsini- UG Student, S.Jeya Praveen- UG Student, N.Maheswaran- UG Student, V.Sudharshini- UG Student	Ms.K.Poornima, Ms.S.Amsaveni, Ms.V.Vimala, G.Divyadharsini- UG Student, S.Jeya Praveen- UG Student, N.Maheswaran- UG Student, V.Sudharshini- UG Student	Smart Irrigation System Powered by IOT	202441016245 A	07.03.2024	22.03.2024	Patent published in journal & Awaiting Request for Examination
6	Patent	ECE	Ms.D.Gowthami, Dr.R.Jayanthi, Mr.P.Vinothkumar, L.Daniel-UG Student, R.Deepak-UG Student, V.Poorniyadevi-UG Student, K.Yuvasri-UG Student	Ms.D.Gowthami, Dr.R.Jayanthi, Mr.P.Vinothkumar, L.Daniel-UG Student, R.Deepak-UG Student, V.Poorniyadevi-UG Student, K.Yuvasri-UG Student	IOT-Enabled Smart Dust Collection and Air Quality Management System	202441016248 A	07.03.2024	22.03.2024	Patent published in journal & Awaiting Request for Examination
7	Patent	ECE	P.Vinothkumar,Dr.R.Jayanthi, M,Arthanari-UG Student,N.Logesh-UG Student,S.Sowmiya-UG Student,R.Sujitha-UG Student	P.Vinothkumar,Dr.R.Jayanthi, M,Arthanari-UG Student,N.Logesh-UG Student,S.Sowmiya-UG Student,R.Sujitha-UG Student	Sensor Based Shopping Assistance System for PWDS	202441016932 A	08.03.2024	22.03.2024	Patent published in journal

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8	Patent	ECE	Mr.D.Baskaran, Mr.T.Rajkumar, Mr.G.Dharshinipriya-UG Student, J.Jasmine-UG Student, M.Naveen-UG Student, T.Sudhakar-UG Student	Mr.D.Baskaran, Mr.T.Rajkumar, Mr.G.Dharshinipriya-UG Student, J.Jasmine-UG Student, M.Naveen-UG Student, T.Sudhakar-UG Student	IOT-Based System for Automating Street Lights and Detecting Faults	202441016934 A	08.03.2024	22.03.2024	Patent published in journal & Awaiting Request for Examination
9	Patent	ECE	Mr.T.Rajkumar, Dr.R.Jayanthi, Mr.D.Baskaran, G.Sowndarraj-UG Student, S.Ramakrishnan-UG Student, S.P.Keerthana-UG Student, D.Vishalini-UG Student	Mr.T.Rajkumar, Dr.R.Jayanthi, Mr.D.Baskaran, G.Sowndarraj-UG Student, S.Ramakrishnan-UG Student, S.P.Keerthana-UG Student, D.Vishalini-UG Student	Ocean Guardian: A Device for Plastic Waste Collection and Oil Spill Cleanup in Water Bodies	202441017816 A	12.03.2024	29.03.2024	Patent published in journal & Awaiting Request for Examination
10	Patent	ECE	Dr.R.Jayanthi, Mr.P.Vinothkumar, R.Geethanjali-UG Student, S.Uma-UG Student, S.Dinesh-UG Student	Dr.R.Jayanthi, Mr.P.Vinothkumar, R.Geethanjali-UG Student, S.Uma-UG Student, S.Dinesh-UG Student	Design of Multipurpose Tree Climbing Robot	202441018304 A	13.03.2024	29.03.2024	Patent published in journal & Awaiting Request for Examination
11	Patent	EEE&CSE	Mr.V.Gowri Shankar, Dr.S.Nandagopal, Dr.G.B.Mohankumar, Dr.J.Kumaresan K.Cibiaravint-UG Student, M.Kathires-UG Student, P.Meiyanthan-UG Student R.Ramana-UG Student	Mr.V.Gowri Shankar, Dr.S.Nandagopal, Dr.G.B.Mohankumar, Dr.J.Kumaresan K.Cibiaravint-UG Student, M.Kathires-UG Student, P.Meiyanthan-UG Student R.Ramana-UG Student	Finding Busted Insulator In Electric Pole By Using Sensor And IoT Device	202441030908 A	17.04.2024	26.4.2024	Patent published in journal & Awaiting Request for Examination
12	Patent	EEE&CSE	Dr.J.Kumaresan, Dr.G.B.Mohankumar, Mr.S.Saravanan, Dr.S.Nandagopal, D.Karthikeyan-UG Student, S.Bhuvaneshwaran-UG Student, Mr.R.Maheshwaran-UG Student Mr.S.Nelson-UG Student	Dr.J.Kumaresan, Dr.G.B.Mohankumar, Mr.S.Saravanan, Dr.S.Nandagopal, D.Karthikeyan-UG Student, S.Bhuvaneshwaran-UG Student, Mr.R.Maheshwaran-UG Student Mr.S.Nelson-UG Student	Sensor Based Solar Lights with Fault Detection and Backup Light	202441032523 A	24.04.2024	03.05.2024	Patent published in journal & Awaiting Request for Examination

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Academic Year:2022 - 2023									
1	Patent	MECH	1) Daniel Lawrence I 2) M.S.Karthik 3) M.Mathanbabu	1) Daniel Lawrence I 2) M.S.Karthik 3) M.Mathanbabu 4) B. Pitchia Krishnan	Nanotechnology Based Water Purification System with Automated Assembly WAPURE	202241035488 A	21/06/2022	24/06/2022	Patent Published in Journal & Awaiting Request for Examination
2	Patent	MECH& ECE	1) B.Pitchia Krishnan 2) Dr. S.Parthiban 3) P.Vinoth Kumar 4) T. Rajkumar	1) B.Pitchia Krishnan 2) Dr. S.Parthiban 3) P.Vinoth Kumar 4) T. Rajkumar	Solar Drier Integrated with HSU for Crops	202241059487 A	18/10/2022	28/10/2022	Patent Published in Journal & Awaiting Request for Examination
3	Patent	MECH& ECE	1) B.Pitchia Krishnan 2) P.Vinoth Kumar 3)N. Viswanathan 4) V. Vimala 5) S. A. Srinivasan 6) T. Krishnamoorthi	1) B.Pitchia Krishnan 2) P.Vinoth Kumar 3)N. Viswanathan 4) V.Vimala 5) S. A. Srinivasan 6) T. Krishnamoorthi	Design of Automatic Welding Machine	202241059986 A	20/10/2022	18/11/2022	Patent Published in Journal & Awaiting Request for Examination
5	Patent	MECH& ECE	1) B.Pitchia Krishnan 2) P.Vinoth Kumar	1) B.Pitchia Krishnan 2) P.Vinoth Kumar	Design of Four Slope Solar Still	202241066517 A	19/11/2022	23/12/2022	Patent Published in Journal & Awaiting Request for Examination
6	Patent	ECE, Mech& CSE	1)Mr.T.Jayachandran 2)Mr.S.Sivaranjani 3)Dr.R.Jayanthi 4).Mr.P.Vinothkumar 5)Mr.B.Pichia Krishnan 6)Ms.D.Gowthami 7)Mr.V.S.Suresh Kumar 8)Mr.R.Sudhakar 9)Mr.S.Thiruvenkatasamy 10)Ms.S.Amsaveni 11) Mr.P.Gopi	1)Mr.T.Jayachandran 2)Mr.S.Sivaranjani 3)Dr.R.Jayanthi 4).Mr.P.Vinothkumar 5)Mr.B.Pichia Krishnan 6)Ms.D.Gowthami 7)Mr.V.S.Suresh Kumar 8)Mr.R.Sudhakar 9)Mr.S.Thiruvenkatasamy 10)Ms.S.Amsaveni 11) Mr.P.Gopi	One dimensional CNN-based high risk maternal and fetal monitoring system with IOT	202241068297 A	28/11/2022	23/12/2022	Patent Published in Journal & Awaiting Request for Examination
7	Patent	EEE	Mrs.S..Hemasilviavinothini	Mrs.S.Hemasilviavinothini	Recognition of Emotions in Real Time for Customer Service using Deep Lens Face Detection Application	202241071811 A	13.12.2022	30.02.2022	Patent Published in Journal & Awaiting Request for Examination
Academic Year:2021 - 2022									
1	Patent	EEE	Mrs .S.Hemasilviavinothini, Mrs.P.Hemalatha	Mrs .S.Hemasilviavinothini, Mrs.P.Hemalatha	Grid monitoring based adaptive electric vehicle charging system	202211027527 A	13.05.2022	20.05.2022	Patent Published in Journal & Awaiting Request for Examination
2	Patent	EEE	Dr.J.Kumaresan, Mr.S.Parthiban	Dr.J.Kumaresan, Mr.S.Parthiban	IOT based mobile app to control home appliances remotely ensuring safety and cost reduction	202141025592 A	9/6/2021	25.06.2021	Patent Published in Journal & Awaiting Request for Examination

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3	Patent	CSE	1) Dr.R.Sathish Kumar 2) Dr.M.Arunachalam 3) Dr.Ronakumar Babuhai Patel 4) Veena Rani 5) Smita Parte	1) Dr.R.Sathish Kumar 2) Dr.M.Arunachalam 3) Dr.Ronakumar Babuhai Patel 4) Veena Rani 5) Smita Parte 6) Vinohkumar U 7) Dr.J.Chitra 8) K.Venkatesan 9) Senthilrajan Govindarajan 10) B.M.S Javed Ahamed	A smart IOT based air cooler system with touch screen display unit	202141057895 A	20/09/2021	17/12/2021	Patent Published in Journal & Awaiting Request for Examination
4	Patent	IT	Mr.S.DEVARAJSAMY	Mr.S.Devarajsamy Kumar Mohan Anu Krishna S J Karthik Deep Yadav Arokia Anony Samy.I D.Radhika	Employment seeking system over the cloud using machine learning approach	202141057748 A	12/12/2021	21/01/2022	Patent Published in Journal & Awaiting Request for Examination
5	Patent	ECE	1) Dr.R.Jayanthi 2) P.Vinoth Kumar	1) Dr.R.Jayanthi 2) P.Vinoth Kumar	New Computer Health Update Software Technology	202241006310 A	7/2/2022	11/2/2022	Patent Published in Journal & Awaiting Request for Examination
6	Patent	ECE	1) D.Gowthami	1) D.Gowthami	New digital software technology to identify the variety of dangerous virus	202241006319 A	7/2/2022	11/2/2022	Patent Published in Journal & Awaiting Request for Examination

S.No	IPR Category	Department	Name of the Applicant(s)/ Assignee Name	Name of the Inventor(s)	Title of the Patent	Application Number	Patent Filed Date	Patent Published Date	Current Status
Academic Year:2020 - 2021									
1	Patent	ECE	1. D.Baskaran 2. Dr.J.Vijayakumar	1. D.Baskaran 2. Dr.J.Vijayakumar	Novel Electronic Cultivation Tool and Their usage in Agriculture	202041054884 A	17/12/2020	24/06/2022	Patent Published in Journal & Reply Filed. Application in amended examination
2	Patent	Mechanical	1) Dr.S.Joe Patrick Gnanaraj 2) Dr.S.Ramachandran 3) Dr.N.Senniengiri 4) Mr.S.Mayakannan 5) Mr.R.Girimurugan	1) Dr.S.Imran Khan 2) Mr.Arumugam Balasudhakar 3) Dr.V.Saravanan 4) Mr.B.Pitchia Krishnan 5) Dr.S.Nagarajan	Optimum Parameter Selection and Prediction of Granite Solar Still	202141018531 A	22/04/2021	30/04/2021	Patent Published in Journal & Awaiting Request for Examination
3	Patent	Mechanical	1) Dr.S.Joe Patrick Gnanaraj 2) Dr.Zeenathul Farida Abdul Gani 3) Dr.S.Imran Khan, 4) Dr.P.Veer 5) Mr.P.Parthiban	1) Mr.S.Mayakannan, 2) Mr.R.Girimurugan, 3) Mr.E.Manohar, 4) Ms.P.Leela Jancy	Sustaining Solar Distillation Using Energy Storage Materials	202141021564 A	13/05/2021	11/6/2021	Patent Published in Journal & Awaiting Request for Examination

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Academic Year:2019 - 2020									
1	Patent	EEE	Dr.J.Kumaresan	Dr.J.Kumaresan	Construction and adjustment of a vibration machine based on a complete electric drive	202041009026 A	03.03.2020	06.03.2020	Patent Published in Journal
3	Patent	Mechanical	Allinnov Research and Development Private Limited, Krishnagiri-635001	1) Ms.R. Lalitha 2) Ms.G. Maria Kalavathy 3) Ms P. Seethalakshmi 4) Mr.JBV. Subrahmanyam 5) Prof.P. Manickavasagam 6) Ms.K. Umamaheshwari 7) Mr.Venkatesan 8) Mr.Prem Charles I	Remotely Controlled Target Sheet Holding Apparatus	202041015807 A	11/4/2020	22/05/2020	Patent Published in Journal
Academic Year:2018 - 2019									
1	Patent	Mech	Allinnov Research and Development Private Limited, Krishnagiri-635001	1) Mr.S.Chidambaranathan 2) Mr.Vijay Anand 3) Mr.K.Venkatesh 4) Mr.Rakesh 5) Mr.M.Amanullah 6) Mr.C.Gopinath 7) Mr.S.Sathiyamurthy 8) Mr.B.Dhiyaneesh 9) Mr.S.Alagesan 10) Mr.M.Anand 11) Mr.M.Babu 12) Mr.P.Naveen Kumar 13) Mr.C.Poovarasana-UG Student 14) Mr.B.Keerthiraja-UG Student 15) Mr.V.Tamizharasu-UG Student 16) Mr.K.Kannan	Smart Seat Belt System	201941005202 A	9/2/2019	15/02/2019	Patent Published in Journal
Academic Year:2017 - 2018									
1	Patent	Mechanical	1) Nandha College of Technology 2) Prof.P. Manickavasagam 3) Mr.C.P. Santhosh Ananda 4) Mr.M. Abdul Rahaman 5) Mr.S. Sathesh 6) Mr.Aman Kumar 7) Mr.S. Gowtham 8) Mr.V. Gowtham 9) Mr.T. Jeevanandan	1) Prof.P. Manickavasagam 2) Mr.C.P. Santhosh Ananda 3) Mr.M. Abdul Rahaman 4) Mr.S. Sathesh 5) Mr.Aman Kumar 6) Mr.S. Gowtham 7) Mr.V. Gowtham 8) Mr.T. Jeevanandan	Universal Power Plug	201741033877 A	25/09/2017	6/10/2017	Patent Published in Journal

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2	Patent	Mechanical	Allinnov Research and Development Private Limited, Krishnagiri-635001	1) Dr.Venugopal .P 2) Dr.Muthukumar Subramanian 3) Mr.A. Richard Kamaleson 4) Dr. S. Vijayabaskar 5) Dr.K.S.Neelukumari 6) Dr. N.Sathish Kumar 7) Mr.Devaraj J 8) Mr.Gokul K 9) Mr.Kaviyaran S 10) Mr.Kalaiyaran P 11) Mr.Dinesh Kumar U	A Double Picks Insertion Loom	201841003323 A	29/01/2018	2/2/2018	Patent Published in Journal
3	Patent	ECE	Mr.P.Vinothkumar	Mr.P.Vinothkumar	Cognitive Radio System Method And Apparatus For Distributing Processing Load For Decoding Radio Frequency Transmission	201841004814 A	8/2/2018	16/02/2018	Patent Published in Journal