

**Department of Electrical and Electronics Engineering**

**Patents Filed / Published Details for the AY 2022-23**

Sl. No	Title of Patent	Jurisdiction/ Published in Indian Patent Journal/ Published Date	Inventors' Name (Faculty / Students)	Status
13.	<b>Design of effective ventilation with self-cleaning expertise</b> Application Number: 202241039507 dated 09.07.2022	India 39/2022 Dated 30/09/2022	Dr. Vinoth Kumar K Dr. Singaravelan A Dr. Prabhakaran N Dr. Gunapriya B Dr. Mahesh M	<b>Published in AY 2022-23</b>
14.	<b>Design of waste heat recovery in windmill using TEG</b> Application Number: 202241039511 dated 09.07.2022	India 39/2022 Dated 30/09/2022	Mr. Vinod Kumar S Dr. Vinoth Kumar K Dr. Mahesh M Mr. Shivashankara M Mr. Abdul Samed Mr. Darshan R	<b>Published in AY 2022-23</b>
15.	<b>Design of underwater Li-Fi Communication System using Analog LDR Sensor</b> Application Number: 202241039517 dated 09.07.2022	India 39/2022 Dated 30/09/2022	Dr. Prabhakaran N Dr. Vinoth Kumar K Dr. Singaravelan A Mr. MD Sagar Khan	<b>Published in AY 2022-23</b>
16.	<b>Design of electric bicycle using split charging technology</b> Application Number: 202241039518 dated 09.07.2022	India 39/2022 Dated 30/09/2022	Dr. Vinoth Kumar K Dr. Mahesh M Ms. Bhavana YC Ms. Bhavana Singh C Ms. Bindhu V	<b>Published in AY 2022-23</b>
17.	<b>Design of the smart harvesting of horticultural crops</b> Application Number: 202241040753 dated 16.07.2022	India 39/2022 Dated 30/09/2022	Dr. Singaravelan A Dr. Vinoth Kumar K Dr. Prabhakaran N Dr. Gunapriya B Dr. Mahesh M	<b>Published in AY 2022-23</b>

18.	<b>Design of accident identification and alerting system by using Raspberry Pi</b> Application Number: 202241040766 dated 16.07.2022	India 39/2022 Dated 30/09/2022	Dr. Vinoth Kumar K Mr. Satish Kumar D Dr. Mahesh M Mr. P. M. D. Muthathir Khan Mr. Vishwanath Patil Mr. Venkan Gouda Mr. Bharatesh Shiradoni	<b>Published in AY 2022-23</b>
19.	<b>Design and validation the battery performance in electric vehicle using optimization method</b> Application Number: 202241040767 dated 16.07.2022	India 39/2022 Dated 30/09/2022	Dr. Vinoth Kumar K Mr. Muni Prakash T Mr. Pranav R Naik Mr. R Puneeth Venkat Sai Varma Ms. R Supraja Mr. Rahul Vijay Lingadhal	<b>Published in AY 2022-23</b>
20.	<b>Design of Arduino based hand gesture controlled robot using IoT</b> Application Number: 202241040769 dated 16.07.2022	India 39/2022 Dated 30/09/2022	Dr. Vinoth Kumar K Dr. Gunapriya B Mr. Jibran Zaidi Mr. Vikram Mr. Lingareddygari Nirupavardhan Reddy Mr. Jaffer	<b>Published in AY 2022-23</b>
21.	<b>Design of PV based Smart Energy Efficient Hybrid Model for Irrigation using Sensorless BLDC Motor</b> Application Number: 202241040711 dated 16.07.2022	India 39/2022 Dated 30/09/2022	Dr. Prabhakaran N Dr. Vinoth Kumar K Mrs. Karthika M Mr. MD Sagar Khan	<b>Published in AY 2022-23</b>
22.	<b>Design of renewable energy based efficient portable DC refrigerator for rural electrification</b> Application Number: 202241040772 dated 16.07.2022	India 39/2022 Dated 30/09/2022	Dr. Vinoth Kumar K Dr. Gunapriya B Dr. Singaravelan A Ms. Greeshma Chennareddy Ms. Chitra S Ms. Kavipriya E Ms. Sahana B	<b>Published in AY 2022-23</b>
23.	<b>Design of two battery model for electric bicycle</b> Application Number: 202241040774 dated 16.07.2022	India 39/2022 Dated 30/09/2022	Dr. Vinoth Kumar K Ms. Kavitha Chenna Reddy Mr. Nischal Dinesh	<b>Published in AY 2022-23</b>

			Mr. Sarthak Das Mr. Prajwal Mr. Ashu Anand	
24.	<b>Design of brain emotional learning based intelligent controller for BLDC motor</b> Application Number: 202241040776 dated 16.07.2022	India 39/2022 Dated 30/09/2022	Dr. Vinoth Kumar K Dr. Gunapriya B Dr. Sujitha S Dr. Mahesh M	<b>Published in AY 2022-23</b>
25.	<b>Design of brain emotional learning based intelligent controller for induction motor</b> Application Number: 202241046371 A dated 16.07.2022	India 39/2022 Dated 30/09/2022	Dr. Vinoth Kumar K Dr. Gunapriya B Dr. Sujitha S Dr. Mahesh M	<b>Published in AY 2022-23</b>
26.	<b>Design of therapeutic treadmill and footrest for differently abled children</b> Application Number: 202241047176 dated 19.08.2022	India 39/2022 Dated 30/09/2022	Dr. Vinoth Kumar K Mr. Vinod Kumar S Dr. Mahesh M Dr. Mohan Das R Mr. Mekala Rohith Kumar Reddy Ms. Harshitha R Mr. Koushik P Ms. Aisiri M Urs	<b>Published in AY 2022-23</b>
27.	<b>Design of Bluetooth based remote voltage monitoring system for off-grid battery</b> Application Number: 202241047180 dated 19.08.2022	India 39/2022 Dated 30/09/2022	Dr. Manujunatha Dr. Mahesh M Dr. Vinoth Kumar K Mr. Satish Kumar D Mr. Advait Madhavan Mr. Khadim Hussain Mr. K Javed Ajmal Mr. M P Jawahar	<b>Published in AY 2022-23</b>
28.	<b>Design of waste heat recovery in windmill using TEG</b> Application Number: 202241039515 dated 09.07.2022	India 08/2023 Dated 24/02/2023	Mr. Vinod Kumar S Dr. Vinoth Kumar K Dr. Mahesh M Mr. Shivashankara M Mr. Abdul Samed Mr. Darshan R	<b>Published in AY 2022-23</b>

29.	<b>A foldable television remote</b> Design Number: 33043-001 dated 13.02.2021	India Design Certificate Dated 17/01/2023	Dr. Gunapriya B et al (4)	<b>Published in AY 2022-23</b>
30.	<b>Self energized bicycle with bullet alternator and GPS tracing system</b> Application Number: 202241065377 A dated 15.11.2022	India 47/2022 Dated 25/11/2022	Dr. Gunapriya B et al (13)	<b>Published in AY 2022-23</b>
31.	<b>Design of assistant robot for home appliances</b> Application Number: 202341007549 A dated 06.02.2023	India 08/2023 Dated 24/02/2023	Dr. Vinoth Kumar K Ms. Sangeetha C N Mr. Baba Fakharuddin	<b>Published in AY 2022-23</b>
32.	<b>Design of driver drowsiness detection and alert system</b> Application Number: 202341007572 A dated 06.02.2023	India 08/2023 Dated 24/02/2023	Dr. Vinoth Kumar Ms. K. Sangeetha C N Mr. Kamalesh Badola Mr. Kushal Naik K Mr. Lava Kumar M N Mr. Mohammed Aman	<b>Published in AY 2022-23</b>
33.	<b>Design of affordable social distance monitoring system using Raspberry PI</b> Application Number: 202341007554 A dated 06.02.2023	India 08/2023 Dated 24/02/2023	Ms. Surat Pyari Atti Dr. Vinoth Kumar K Ms. Sangeetha C N Mr. Mohammed Imad Mr. Sanjan R Mr. Shashank Joshi Ms. Sneha S A	<b>Published in AY 2022-23</b>
34.	<b>Design of theft diagnosis from smart energy meter using IoT</b> Application Number: 202341007559 A dated 06.02.2023	India 08/2023 Dated 24/02/2023	Dr. Vinoth Kumar K Ms. Gautammee K K Ms. Aishwarya P Ms. Charishma A Ms. Kesamreddy Deepthi	<b>Published in AY 2022-23</b>
35.	<b>Design of Lifi based text communication</b> Application Number: 202341007560 A dated 06.02.2023	India 08/2023 Dated 24/02/2023	Ms. Pooja Jose Dr. Vinoth Kumar K Ms. Aamna Nafiza Ms. Disha M Ms. Harshika Ms. Hemavathi V	<b>Published in AY 2022-23</b>

36.	<b>Design of wind solar hybrid system</b> Application Number: 202341007561 A dated 06.02.2023	India 08/2023 Dated 24/02/2023	Ms. Kavitha Chenna Reddy Dr. Vinoth Kumar K Ms. Manasa G Reddy Ms. Neha R Ms. Tantapureddi Haritha Ms. Tejashree T	<b>Published in AY 2022-23</b>
37.	<b>Design of numerical door lock using Arduino</b> Application Number: 202341007566 A dated 06.02.2023	India 08/2023 Dated 24/02/2023	Dr. Gunapriya B Dr. Vinoth Kumar K Dr. Sujitha S	<b>Published in AY 2022-23</b>
38.	<b>Design of hybrid renewable energy systems based dc micro grids and mini-grids for off-grid electrification in rural and smart city development</b> Application Number: 202341007565 A dated 06.02.2023	India 08/2023 Dated 24/02/2023	Dr. Gunapriya B Dr. Vinoth Kumar K	<b>Published in AY 2022-23</b>
39.	<b>Design of smart segregation bin</b> Application Number: 202341007563 A dated 06.02.2023	India 08/2023 Dated 24/02/2023	Mr. Kartheek Vankadara Mr. Bharath T Mr. Dayas A Dixen Mr. Dony Snehit P Ms. Infancia Pragna	<b>Published in AY 2022-23</b>
40.	<b>Analysis of electrical parameters for formula style electric vehicle</b> Application Number: 202341007562 A dated 06.02.2023	India 08/2023 Dated 24/02/2023	Dr. Mohan Das R Mr. Vinod Kumar S Mr. Tejas Ms. Rithika Kapoor Mr. Varun R Ms. Shambavi Bhagat	<b>Published in AY 2022-23</b>
41.	<b>Design of dynamic wireless power transfer system technology used in solar wireless electric vehicle charging stations</b> Application Number: 202341020401 A dated 23.03.2023	India 15/2023 Dated 14/04/2023	Dr. Vinoth Kumar K Mr. Maruthi B Mr. Rahul R Mr. Santhosh Melvin D Mr. Sathish S	<b>Published in AY 2022-23</b>
42.	<b>Design of electric quad bike with hybrid charging mode for physically challenged</b> Application Number: 202341020419 A dated 23.03.2023	India 15/2023 Dated 14/04/2023	Dr. Sujitha S Mr. M Rohit Kumar Reddy Ms. Harshitha R Ms. Asiri M Urs	<b>Published in AY 2022-23</b>

			Mr. Koushik P	
43.	<b>A fully automated system for paralysis patient health management</b> Application Number: 202341020423 A dated 23.03.2023	India 15/2023 Dated 14/04/2023	Mr. Satish Kumar D Mr. Bisen Rochil Pradeep Ms. Sakshi Ms. Sanjana Ms. Shreya D Revankar	<b>Published in AY 2022-23</b>
44.	<b>Design of wireless DC motor control</b> Application Number: 202341020427 A dated 23.03.2023	India 16/2023 Dated 21/04/2023	Ms. Manochitra G Ms. Harshitha K Ms. Deepika K Shetty Ms. Disha Ashok Nayak Ms. Harshitha V	<b>Published in AY 2022-23</b>
45.	<b>Smart transport system for preventing animals attacks and accidents for village roads using AI techniques</b> Application Number: 202341020431 A dated 23.03.2023	India 16/2023 Dated 21/04/2023	Dr. J Joshua Daniel Raj Ms. Sangeetha C N Mr. Sarthak Ghorai Mr. Subajit Das Mr. Manish Mr. Shariq Ahmed	<b>Published in AY 2022-23</b>
46.	<b>Ultrasonic radar sensor using Arduino</b> Application Number: 202341020433 A dated 23.03.2023	India 20/2023 Dated 19/04/2023	Ms. Sangeetha C N Dr. J Joshua Daniel Raj Mr. Yashwanth S Ms. Simran Kanwar Mr. Vikash Rawat Mr. Vinay Kumar	<b>Published in AY 2022-23</b>
47.	<b>Design of smart blind stick</b> Application Number: 202341020436 A dated 23.03.2023	India 15/2023 Dated 14/04/2023	Ms. Manochitra G Ms. Janhavi G Ms. Keerthi M Ms. Lavanya N Ms. Deepika	<b>Published in AY 2022-23</b>
48.	<b>Design of food monitoring system using IoT</b> Application Number: 202341020448 A dated 23.03.2023	India 15/2023 Dated 14/04/2023	Ms. Soumya K V Dr. Sujitha S Ms. Jayanth CK Mr. Ramakant H Dolli Mr. Sharath Kumar M	<b>Published in AY 2022-23</b>

			Mr. Vignesh M	
49.	<b>Design of error detection using hamming codes</b> Application Number: 202341020452 A dated 23.03.2023	India 15/2023 Dated 14/04/2023	Ms. Soumya K V Dr. Sujitha S Mr. Manu K Mr. Ponde Sumanth Mr. Raghavendra Mr. Yeshwanth M	<b>Published in AY 2022-23</b>
50.	<b>An intelligent system for plant disease diagnosis using convolution neural networks</b> Application Number: 202341020454 A dated 23.03.2023	India 15/2023 Dated 14/04/2023	Mr. Satish Kumar D Dr. Joshua Daniel Raj J Mr. Anoopkumar H S Mr. Chethan D R Mr. Deekshith More B Mr. Kushal A Y	<b>Published in AY 2022-23</b>
51.	<b>Design and Implementation of solar fed flood alert system using Bolt Wi-Fi Module</b> Application Number: 202341020457 A dated 23.03.2023	India 15/2023 Dated 14/04/2023	Ms. Karthika M Dr. Sujitha S Mr. Ezra James D'cunha, Mr. Abrar Altaf Dar Mr. Gaurav P Kumar Mr. Ankit Kumar	<b>Published in AY 2022-23</b>
52.	<b>Design of non-invasive method detecting Anemia</b> Application Number: 202341021362 A dated 25.03.2023	India 16/2023 Dated 21/04/2023	Anitha A, Vinoth Kumar K, Abhishek Bedant, Madhav Reddy C, Kumar Abhishek	<b>Published in AY 2022-23</b>
53.	<b>Investigation of artificial intelligence and IoT based detection of pesticide in organic fruits and vegetables</b> Application Number: 202341021366 A dated 25.03.2023	India 16/2023 Dated 21/04/2023	Sunil S K, Sujitha S, Manoj Kumar V, Naveen R N, Sandeep Naik R, Manoj Kumar P	<b>Published in AY 2022-23</b>
54.	<b>Design of solar powered multifunctional agricultural robot</b> Application Number: 202341021405 A dated 25.03.2023	India 16/2023 Dated 21/04/2023	Sujitha S, Meghana N T, Vidya G R, Vandana R	<b>Published in AY 2022-23</b>
55.	<b>Rear Camera Fixture for Military Purpose</b>	TEMP/D-1/5073-KOL (Design)	D Kodandapani, Satish Kumar D, Karthek Vankadara	Filled in AY 2022-23
56.	<b>Adjustable Antifall Multipurpose Table</b> Application Number: 380114-001 dated 25.03.2023	India Design Certificate Dated 21/04/2023	Dr. Agalya V et al (2)	<b>Published in AY 2022-23</b>

57.	<b>Automatic speed control of an electric vehicle using raspberry PI</b> Application Number: 202241039501 A dated 09.07.2022	India 39/2022 Dated 30/09/2022	Dr. Agalya V et al (11)	<b>Published in AY 2022-23</b>
58.	<b>A novel design of falling-edge phase frequency detector with delay cells for minimum dead zone</b> Application Number: 202241039503 A dated 09.07.2022	India 39/2022 Dated 30/09/2022	Dr. Agalya V et al (6)	<b>Published in AY 2022-23</b>
59.	<b>Design on blind navigation using ultrasonic sensor</b> Application Number: 202241040754 A dated 16.07.2022	India 39/2022 Dated 30/09/2022	Dr. Agalya V et al (7)	<b>Published in AY 2022-23</b>
60.	<b>Smart energy meter with earthquake identification and gas leakage detection device</b> Application Number: 202241040761 A dated 16.07.2022	India 39/2022 Dated 30/09/2022	Dr. Agalya V et al (7)	<b>Published in AY 2022-23</b>
61.	<b>Design and fabrication of multipurpose agriculture vehicle</b> Application Number: 202241048505 A dated 25.08.2022	India 39/2022 Dated 30/09/2022	Dr. Agalya V et al (8)	<b>Published in AY 2022-23</b>