



BVRIT HYDERABAD College of Engineering for Women

(UGC Autonomous Institution | Approved by AICTE | Affiliated to JNTUH)

(NAAC Accredited – A Grade | NBA Accredited (EEE, ECE, CSE and IT))

Bachupally, Hyderabad -500 090

Department of ECE

Patents Information – Published / Granted - Summary

S. No	Type of Patent	Published	Granted
1	Indian Utility Patent	70	1
2	Indian Design Patent	5	
3	UK Design Patent	4	

S. No	Year	Published	Granted
1	2018	1	
2	2021	4	
3	2022	6	
4	2023	16	
5	2024	21	1
6	2025	22	

Patents Information – Granted – Utility – National

S. No	Applicant Name (s)	Title	Application Number	Year Date of Grant
1	Dr J Naga Vishnu Vardhan	A Portable Medicine Identification and Alerting System for Visually Challenged People and Geriatrics (Indian - Utility Patent)	531064	2024 29-03-2024

Patents Information – Published – Utility – National

S. No	Applicant Name (s)	Title	Application Number	Year Date of Publish
1	Dr. V. Hindumathi Rama Lakshmi Gali	Wireless Data Encryption and Decryption for Secured Communication	202541056411	2025 20-06-2025
2	Ms. M Praveena	Colour Smart Currency Reader	202541054343	2025 13-06-2025
3	Ms. M Praveena Ms. G Rama Lakshmi Ms. R Sahithi	Design and Implementation of Fault-Tolerant High-Performance Adder Architectures for Scalable Digital Systems	202541054577	2025 13-06-2025
4	Dr. V. Santhosh Kumar Dr. M. Ranjeeth	Deep Learning Techniques for Image Super-Resolution in Medical Imaging and Satellite Systems	202541050707	2025 13-06-2025

5	Ms. Rama Lakshmi Gali	Automated Waste Segregation System Using Arduino-Based Sensors	202541053960	2025 13 -06- 2025
6	Dr. V. Hindumathi Ms. Rama Lakshmi Gali	Post-Quantum Security Chip with Multi-Layer Defense and Zero-Trust Architecture	202541053313	2025 13 -06- 2025
7	Ms. Rajidi Sahithi	Quantum-Inspired DNA Cryptography using LFSR-Driven Sequence Generation	202541054295	2025 13 -06- 2025
8	Dr V Santhosh Kumar Dr M. Ranjeeth	Deep Learning Techniques for Image Super- Resolution in Medical Imaging and Satellite Systems	202541050707	2025 13-06-2025
9	Dr. Viswanadham R	Seizure Detector and Monitor	202541047220	06-06-2025
10	Dr. Anwar Bhasha Pattan	Emotion Detection Eye Glasses with Audio output for Visually Impaired	202541044219	2025 30-05-2025
11	Dr. Anwar Bhasha Pattan	Smart Medicine Box for Blind with expiry alerts and stock monitoring	202541044346	2025 30-05-2025
12	Dr. K. Vasu Babu	Design and Analysis of Quasi-binomial series array antenna for millimeter (mm) wave for 5G applications	202541037450	2025 16-05-2025
13	Dr M Ranjeeth Dr D. Nagesh	Mobile Signal Booster and Jammer	202541022556	2025 28-03-2025
14	Dr. Viswanadham R	AI-Powered Diagnosis of Erythemato Squamous Diseases	202541026351	2025 28-03-2025
15	Mr. P. Rajesh Kumar	Lane Detection for Urban and Highway Environment	202541022218	2025 21-03-2025
16	Dr Anwar Bhasha Pattan	The intelligent and Eco-Friendly Waste management using IoT Technology	202541017305	2025 07-03-2025
17	Dr T Thammi Reddy Mr Sai Kumar Tara	Cache Controller Design for Enhanced Data Access Rates	202541009410	2025 14-02-2025
18	Dr M Ranjeeth	IoT Healthcare System Based On Esp32 For Smart Home	202541005867	2025 31-01-2025
19	Ms. R Sahithi, Dr. V Hindumathi, Ms. T Amy Prasanna	Smart Kitchen Container	202541005829	2025 30-01-2025
20	Ms. T. Amy Prasanna, Dr. M. Parvathi, Ms. R. Sahithi,	Detection of Fruits And their parameters Using Raspberry Pi	202541005853	2025 30-01-2025

	Dr. T. Pardhu			
21	Mr Sai Kumar Tara Dr T Thammi Reddy	Brain-computer interface for mental state analysis	202541003984	2025 24-01-2025
22	Ms. Rama Lakshmi Gali Ms. M Praveena	Coin Detection Using Image Processing	202541001355	2025 10-01-2025
23	Dr M Ranjeeth	Self-Stabilizing Spoon For Parkinson's Sufferers	202541005455	2024 31-12-2024
24	Dr V Hindumathi Dr V Santhosh kumar Dr. M. Ranjeeth Dr L Bhargava Kumar	Modulation Schemes Using MATLAB App Designer	202441094616	2024 06-12-2024
25	Dr J Naga Vishnu Vardhan	Textile-Based Antenna for Non-Invasive Monitoring of Tissue Properties in Biomedical Applications	202441084898	2024 15-11-2024
26	Dr Nagesh Deevi	She Shield – A Security Garment for Speech and Mentally Challenged Women	202441084621	2024 15-11-2024
27	Dr K Vasu Babu	Compact and Flexible MIMO Antenna Design for High Performance Wireless Body Area Networks	202441075611	2024 18-10-2024
28	Dr Nagesh Deevi Dr T Pardhu Dr M Ranjeeth	Sign Glove For Physically Disabled	202441072632	2024 04-10-2024
29	Dr J Naga Vishnu Vardhan Ms. M Praveena	Design of Wildlife Detection and Alerting System	202441072975	2024 04-10-2024
30	Dr M Ranjeeth	Virtual Pen Using Opencv Python	202441071529	2024 04-10-2024
31	Dr R Viswanadham Dr Nagesh Deevi Mr R Priyakanth Mr N M Sai Krishna	Rehabilitation Device	202441045908	2024 27-09-2024
32	Dr T Pardhu	Smart Environment System For Real-Time Human Activity Classification Using KINECT and IoT Enabled Machine Learning	202441069701	2024 20-09-2024
33	Mr. K Mahesh Babu Mr. R Priyakanth Mr. N M Sai Krishna Dr Anwar Bhasha Pattan	Borewell Rescue Robot Device, System And Method Related To The Same	202341049097	2024 06-09-2024

	Mr. G Sreenivasa Rao			
34	Mr. R Priyakanth Mr. N M Sai Krishna Mr. G Sreenivasa Rao	Safety Device, System And Method For Monitoring And Rescue Of Coal Mine Workers	202341052485	2024 06-09-2024
35	Dr. Anwar Bhasha Pattan	An IOT-Based Intelligent Landslide Detection and Monitoring System	202441063168	2024 30-08-2024
36	Dr. M. Ranjeeth	Enhanced Fire Detection and Alarming System with AI Based False Alarm Detection	202441058758	2024 09-08-2024
37	Dr. M. Ranjeeth	Smart IoT Technology For Efficient Dry And Wet Waste Segregation	202441054020	2024 02-08-2024
38	Dr Viswanadham Dr B V N S M Nagesh Deevi Mr R Priyakanth	IoT based System and Design Approach for Health Monitoring of Wearable Devices	202441019895	2024 29-03-2024
39	Mr. R Priyakanth Mr. N M Sai Krishna	System and Method for Enhancing Safety of a Driver	202341076498	2024 16-02-2024
40	Mr. R Priyakanth Mr. N M Sai Krishna Mr. K Mahesh Babu Mr. G Sreenivasa Rao	System and Method for Visually Impaired Transcription	202341076497	2024 16-02-2024
41	Mr. R Priyakanth Mr. N M Sai Krishna Mr.G. Sreenivasa Rao	System and Method for Analyzing GAIT Abnormality	202441010410	2024 08-03-2024
42	Mr. T Pardhu	Smart Agriculture Automatic Monitoring System Using Artificial Intelligence	202441005082	2024 09-02-2024
43	Dr. M. Ranjeeth	Method of Evaluation of BER Performance of Noma System Under Various Fading Channels	202341090240	2024 26-01-2024
44	Mr. R Priyakanth Mr. N M Sai Krishna	System and Method for Waste Water Treatment	202341046053	2023 08-12-2023
45	Mr. T Pardhu	Fire Fighting Robot Using IoT	202341069267	2023 01-12-2023
46	Ms. M Praveena Ms. G Rama Lakshmi Mr N M Sai Krishna	System for footboard avoidance in an automobile and method related to same thereof	20231068050	2023 03-11-2023

47	Mr. T Pardhu	Advanced Prosthetic device with integrated brain-computer interface and Machine learning capabilities	202341058694	2023 06-10-2023
48	Mr. T Pardhu	Neighbourhood Delivery Autonomous Robot	202341062149	2023 06-10-2023
49	Mr. T Pardhu	Autonomous Fire Detection Robot System for Industrial Environments	202341058046	2023 08-09-2023
50	Mr. T Pardhu	Femme Fortress: A Special Women's safety device with Embedded Intelligence	202341057542	2023 08-09-2023
51	Mr. T Pardhu	TRAFFIC SIGN RECOGNITION AND VOICE ALERT SYSTEM USING CNN	202341051844	2023 01-09-2023
52	Mr T Sai Kumar	Deep Convolutional Neural Networks model for IoT Based Adaptive Traffic Control System	202341040966	2023 18-08-2023
53	Mr T Pardhu Dr Anwar Bhasha Pattan Dr K Vasu Babu	Design of Bluetooth-Controlled Motorized Abdomen Scan Equipment	202341037540	2023 18-08-2023
54	Dr J Naga Vishnu Vardhan Mr G Srinivasa Rao	Massage Device system and Method related to the same there of	202341032803	2023 23-06-2023
55	Ms. Shaik Nilofer Ms Sahithi Rajidi Dr. V Santhosh Kumar Ms. Manju P	Wearable continuous body temperature monitoring system	202341031415	2023 16-06-2023
56	Mr T Pardhu Dr Nagesh Deevi Dr Anwar Bhasha Pattan Dr K Vasu Babu Mr N Srinivasa Rao Mr K Mahesh Babu	Design of autonomous sentry robot for surveillance and security	202341030857	2023 26-05-2023
57	Mr T Pardhu Dr Nagesh Deevi Dr Anwar Bhasha Pattan Dr K Vasu Babu Ms. T Amy Prasanna	Design of real-time positioning system-a satellite free navigation	202341030901	2023 05-05-2023
58	Dr M Parvathi	Carbon Nano-Tube field effect transistor based memory device	202341020130	2023 22-03-2023

59	Dr. V Hindumathi Dr J Naga Vishnu Vardhan	IOT and Cloud based Drone Technology for Sustainable Agriculture to Monitor Soil Analysis for Field Planning, Crop Monitoring Irrigation Management Crop Health Assessment Livestock Monitoring Disaster Management Transporting Goods using Machine Learning Algorithms	202341005584	2023 24-02-2023
60	Mr R Priyakanth Mr N M Sai Krishna	System and Method for Preparing Compos from Food Waste	202241062017	2022 18-11-2022
61	Mr T Sai Kumar	Efficient Deep Image Compression System With Auto-Encoders for Different Subband Frequencies	202241065491	2022 25-11-2022
62	Dr. V Santhosh Kumar Dr. V Hindumathi	A Magneto Sensitive Assembly for Interactive Electronic Devices	20224105911	2022 28-10-2022
63	Mr R Priyakanth Mr N M Sai Krishna Mr G Srinivasa Rao Mr M H N V Prasad	IoT based device and method for detecting Baby's Cry and Reason behind the Baby's Cry	202241055809	2022 14-10-2022
64	Mr R Priyakanth Mr N M Sai Krishna Dr J Naga Vishnu Vardhan Mr G Srinivasa Rao Mr M H N V Prasad	System and Method for Monitoring Intravenous Fluid Liquid in an Intravenous Fluid Bottle	202241054645	2022 07-10-2022
65	Ms. ShaikNilofer Ms. Manju P	Performance of multicarrier modulation techniques with and without proposed MELS channel estimation method.	202211040825	2022 22-07-2022
66	Dr. V Hindumathi	Adaptive Bandwidth Control to Improve Energy Fairness in 5g Wireless Sensor Network	202111050944	2021 19-11-2021
67	Dr. V Santosh Kumar	An Efficient Enhanced VLSI Architecture of Montgomery Modular Multiplication	202141028654	2021 09-07-2021
68	Dr. M Parvathi Ms. R Sridevi Mr. M Venkatesham	An AI Enabled Method for Parasitic R & C Estimation In Progressive Stacked SRAM Circuits	202141016526	2021 23-04-2021
69	Dr. M Parvathi	AI Enabled Framework for Early Diagnosis of Autism Spectrum Disorder	202141008949	2021 12-03-2021
70	Dr. J Naga Vishnu Vardhan	Smart Clothing for Patients	201641024774	2018 26-01-2018

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Department of ECE

Design Patents

S. No	Applicant Name (s)	Title	Application Number	Year Date of Grant
1	Dr. V Hindumathi Dr. V Santhosh Kumar	A Beverage Dispensing unit (Design Patent)	347553-001	2021-22 29-12-2022
2	Mr. Sai Kumar Tara	AI based network intrusion detecting device (Indian - Design Patent)	399332-001	2023-24 15-01-2024
3	Mr. T Pardhu	Fire Detecting Robot for Industrial Applications (Indian - Design Patent)	390352-001	2023-24 23-02-2024
4	Mr. T Pardhu	Society Delivery Robotic Device (Indian - Design Patent)	391491-001	2023-24 06-10-2023
5	Mr. T Pardhu	Mountable Device on Prosthetics (Indian - Design Patent)	391492-001	2023-24 22-09-2023

UK Patents

S. No	Applicant Name (s)	Title	Application Number	Year Date of Grant
1	Mr T Pardhu	Variable rating Accumulator charging station with Tools Box (Design patent –UK)	6270282	2022-23 28-03-2023
2	Dr Anwar Bhasha Pattan Dr Nagesh Deevi Dr M Parvathi Mr T Pardhu	Design of Sentry Robot for Surveillance and Security (Design patent –UK)	6272417	2022-23 22-05-2023
3	Mr T Pardhu	Fire Detecting Robot for Industrial Applications (Design patent –UK)	6295889	2022-23 21-07-2023
4	Mr T Pardhu Dr Nagesh Deevi Dr Anwar Bhasha Pattan	Automated abdominal imaging system (Design patent –UK)	6289638	2022-23 14-07-2023