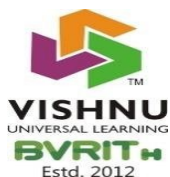




BVRIT HYDERABAD College of Engineering for Women
Nizampet Road, Bachupally, Hyderabad-500090
Department of Electrical and Electronics Engineering

Total Count of Patents

AY	2024-25	2023-24	2022-23	2021-22
Total	32	14	4 (1 granted)	7



BVRIT HYDERABAD College of Engineering for Women

Nizampet Road, Bachupally, Hyderabad-500090

Department of Electrical and Electronics Engineering

List of Patents

2024-25

S.No.	Title of the Patent	Patent Number	Date of Filing	Date of Publishing	Date of Grant	Name of the Inventors
1	ELECTRIC VEHICLE CHARGING MANAGEMENT SYSTEM WITH DEMAND RESPONSE AND RENEWABLE ENERGY PRIORITIZATION	202441065311	29-08-2024	06-09-2024	-	1. Rampelli Manojkumar 2. CHAMAKURA KRISHNA REDDY
2	LOW-COST ARDUINO BASED SOLAR PANEL I-V and P-V CHARACTERISTICS TRACER	202441066095	01-09-2024	13-09-2024	-	1. CHAMAKURA KRISHNA REDDY 2. Rampelli Manojkumar 3. Balusu Srinivasa Rao
3	LOW-COST ARDUINO BASED ELECTRICAL ENERGY MONITORING SYSTEM	202441065924	31-08-2024	13-09-2024	-	1. CHAMAKURA KRISHNA REDDY 2. Rampelli Manojkumar 3. Balusu Srinivasa Rao
4	THE SMART NAVIGATOR USING GSM	202441075464	05-10-2024	18-10-2024	-	1. Amritha Kodakkal, 2. B. Meghana, 3. L. Niharika, 4. N. Chandana, 5. P. Charishma
5	Smart Seismic Sensing: Designing an Arduino based Earthquake Detector	202441073741	30-09-2024	04-10-2024	-	1. Dr.Chava Sunil Kumar 2. Dr.J.Rohith Balaji 3. Banka Sujatha 4. Moodi Sudheer Kumar

S.No.	Title of the Patent	Patent Number	Date of Filing	Date of Publishing	Date of Grant	Name of the Inventors
						5. Regula Anjali 6. Nakka S S D Harshitha 7. Jonnana Poojitha 8. Chinnavula Sushmitha
6	ENHANCING HOME COMFORT AND SECURITY WITH IOT-DRIVEN AUTOMATION	202441072988	26-09-2024	04-10-2024	-	1. Banka Sujatha 2. Dr.SSSR.Sarathbabu Duvvuri 3. Dr. Chava Sunil Kumar 4. Dr. M. Ranjiith 5. Sripriya Rathod 6. Janani Nagarajan 7. Jessi Elina Sanaga 8. Advaita Srigiri
7	Innovative Smart Insole for Accurate Pressure Detection	202441079547	19-10-2024	25-10-2024	-	1. T.Roja Rani 2. B.Sujatha 3. B.Uma Rani
8	Advanced Patient Monitoring using IoT: A Modern Healthcare Solution	202441081228	24-10-2024	01-11-2024	-	1.Banka.Sujatha 2.Dr.P.Chandra Babu 3.Dr. Chava Sunil Kumar 4.Dr.M.Rupesh 5.Dr Devineni Gireesh Kumar 6.Mahendra Chand Bade
9	Hybrid Fuzzy Logic and Machine Learning Based Controller for Power Flow Management and Communication Optimization in V2G-Enabled Smart Grids	202441082980	29-10-2024	08-11-2024	-	1. Krishna Pavan Inala 2. Rampelli Manojkumar

S.No.	Title of the Patent	Patent Number	Date of Filing	Date of Publishing	Date of Grant	Name of the Inventors
10	Smart System for Enhanced Vision in Facial Recognition Attendance	202441083939	04-11-2024	08-11-2024	-	1. Guruswamy Revana 2. Dr.K.Kavita 3. Dr.N.Bhoopal 4. Dr.Nara Sreekanth 5. Vaidya Sharanya 6. Bopanna Sri Neha 7. Kalle Vennela Varshini
11	AMBU BAG BASED PORTABLE LIFE SUPPORTING VENTILATION APPARATUS	202441083692	01-11-2024	08-11-2024	-	1. Dr. Rohith Balaji Jonnala 2. Dr. Chava Sunil Kumar
12	Machine Learning Based DC DC Converter for Photovoltaic (PV. Modules	202441084080	04-11-2024	15-11-2024	-	1.Dr. SSSR Sarathbabu Duvvuri 2.Banka Sujatha 3. Mr. K. P. Swaroop 4. Dr. M. V. Srikanth 5. Dr. S. M. Padmaja
13	Conveyor-Based Filling Machine with Integrated Control Systems and Micro-controller Automation	202441093043	30-11-2024	06-12-2024	-	1. Guruswamy Revana 2. N.Bhoopal 3. Nara Sreekanth 4. B.KrishnaVeni 5. Pardeep Kumar
14	Smart Speedometer with LED display using Arduino	202441096957	09-12-2024	13-12-2024	-	1. Banka Sujatha 2. Dr.Kummitha Obula Reddy 3. Asha Vuyyuru
15	Innovative Solution for Water Overflow: An Impulse Regulator System	202441099770	17-12-2024	03-01-2025	-	1.Dr.Chava Sunil Kumar 2.Dr.S. Saravanan 3.Dr. B. Srinivasa Rao 4.Dr. Katuri Rayudu

S.No.	Title of the Patent	Patent Number	Date of Filing	Date of Publishing	Date of Grant	Name of the Inventors
						5.Ms.Banka. Sujatha 6.Mr. Moodi Sudheer Kumar 7.Ms. Nakka S S D Harshitha
16	Arduino-Driven Comfort Assessment System for Indoor Environments	202441100848	19-01-2025	03-01-2025	-	Banka.Sujatha
17	ENERGY-EFFICIENT TIMETABLE GENERATION SYSTEM IN EDUCATIONAL INSTITUTIONS FOR PEAK LOAD MANAGEMENT	202541005851	24-01-2025	31-01-2025	-	1. Rampelli Manojkumar 2. Chamakura Krishna Reddy
19	IoT-Driven Smart Home and Security System with ESP32 and Multi-Sensor Integration	202541005427	23-01-2025	31-01-2025	-	1. Dr. S. Saravanan 2. Dr. Chava Sunil Kumar 3. S. Suriya Prakash
18	OPTIMIZED SCHEDULING OF BATTERY ENERGY STORAGE USING INITIAL STATE OF CHARGE AS A CONTROL VARIABLE IN ENERGY MANAGEMENT SYSTEMS	202541009042	04-02-2025	14-02-2025	-	Rampelli Manojkumar
20	Sustainable energy management with IoT based monitoring system	202541008141	31-01-2025	14-02-2025	-	1.Dr.S.Kalyan 2.Dr.G.Hanu Phani Ram 3.Banka Sujatha
21	The intelligent and Eco-Friendly waste management using IoT Technology	202541017305	27-02-2025	07-03-2025	-	1.Banka.Sujatha 2.Dr Anwar Bhasha Pattan 3.Dr. Chava Sunil Kumar 4.Arakala Harshitha 5.Bhimpavu Poojitha

S.No.	Title of the Patent	Patent Number	Date of Filing	Date of Publishing	Date of Grant	Name of the Inventors
						6.Theegala Anupriya 7.Jakkula Vineela
22	Wireless Communication using Zigbee Technology	202541028288	26-03-2025	25-04-2025	-	1. Dr. Chava Sunil Kumar 2. Banka Sujatha 3. Chouda Rukmini 4. Kandi Tina Sai Sri 5. Dabbiru Nani Patnaik 6. Yella Rakshitha
23	An IoT-Enabled Surveillance Car using a Camera Module	202541028297	26-03-2025	25-04-2025	-	1. Dr. Chava Sunil Kumar 2. Banka Sujatha 3. Madari Varshini 4. Veerannagari Muktha 5. Chintala Keerthi 6. Cheerla Deekshitha
24	AI-Powered Diagnostic Tool for Brain Tumor Classification with Telegram Bot	202541029025	27-03-2025	25-04-2025	-	1. Banka. Sujatha 2. Dr. K.V.N. Sunitha 3. Dr. Chava Sunil Kumar 4. B. Yukthakshary 5. Basamgari Akhila 6. Peddiraju Sai Pranathi 7. Chintala Keerthi
25	Wireless Gesture Control Interface for Personal Computing Devices	202541032499	02-04-2025	25-04-2025	-	1.Dr.K.Bhavya 2. Ms.A.Abhinaya 3.Ms.G.Triveni 4.Ms.R.Greeshma 5.Ms.M.Shiva Deepika
26	Hand Gesture to Speech: An Embedded System-Based Assistive Communication System	202541044498	08-05-2025	30-05-2025	-	1. Dr. Amritha Kodakkal, 2. Ms. K Unnatha, 3. Ms.SD Rizwana Begum, 4. Ms.R.Harini,

S.No.	Title of the Patent	Patent Number	Date of Filing	Date of Publishing	Date of Grant	Name of the Inventors
						5. Ms. T Prameela
27	ALERT – ALTER – ASSIST: An IoT Based Life-Saving vehicle Alert System for Accelerated Emergency Response	202541049412	22-05-2025	06-06-2025	-	1. Ms. Johanna Peter 2. Dr. Faith Manjusha Vijaya Latha 3. Mr. Guruswamy Revana
28	Adaptive Traffic System with Emergency Vehicle Priority	202541047992	19-05-2025	06-06-2025	-	1. Dr. M Rupesh 2. Ms. P Supriya 3. Ms. E Mrudhula 4. Ms. Ch Shivani 5. Ms. M Soujanya
29	Intelligent Regenerative Braking Monitoring System for Electric Vehicles	202541051026	27-05-2025	13-06-2025	-	1. Dr. M. Rupesh 2. Ms. Sanapala Sai Jahnvi 3. Ms. D. Khyathi 4. Ms. G. Devi Sri 5. Ms. D. Sharmista
30	Neuro Guard: Intelligent Seizure Alert Device	202541055012	07-06-2025	13-06-2025	-	1. Banka Sujatha 2. Dr.Chava Sunil Kumar 3. Ms.Sri Priya Rathod 4. Ms.Janani Nagarajan 5. Ms.Srigiri Advaita 6. Ms.Jessi Elina Sanaga
31	IoT Enabled Lineman Safety Mechanism for Electrical Line Maintenance	202541053999	04-06-2025	13-06-2025	-	1. Dr. Amritha Kodakkal 2. Ms.B. Meghana, 3. Ms.G. Triveni, 4. Ms.Srikakulapu 5. Lakshmi Samhitha, 6. Ms.Ch. Bhanu Teja
32	Identification Of Topology Attacks in Smart Grid Using	202541051166	28-05-2025	13-06-2025	-	1. Sowmya Mangali 2. Amulya Tumalla 3. Poojitha Donepudi

S.No.	Title of the Patent	Patent Number	Date of Filing	Date of Publishing	Date of Grant	Name of the Inventors
	KNN-Based Machine Learning Algorithm					4. Akhilesh Kumar Tiwari 5. Ravikant Verma 6. Padmini Sharma 7. Prasanta Kumar Jena (Applicant)



BVRIT HYDERABAD College of Engineering for Women

Nizampet Road, Bachupally, Hyderabad-500090

Department of Electrical and Electronics Engineering

List of Patents

2023-24

S.No.	Title of the Patent	Patent Number	Date of Filing	Date of Publishing	Date of Grant	Inventor Names
1	An IoT-based Intelligent Landslide Detection and Monitoring System	202441063168	21-08-2024	30-08-2024	-	1. Dr. Anwar Bhasha Pattan 2. Banka Sujatha 3. Muddana Devi Suma Sri 4. Krishna Pravallika Nandula 5. Alluri Khamhiti 6. Sriram Francy Sharon Agape
2	ENHANCED FIRE DETECTION AND ALARMING SYSTEM WITH AI-BASED FALSE ALARM DETECTION	202441058758	02-08-2024	09-08-2024	-	1. Banka Sujatha 2. S. Kalyan 3. M. Ranjeeth 4. Ch. Srivardhan Kumar 5. Sneha Manoharan 6. Likhitha Rathod 7. G V S Snehitha 8. Penmatsa Kavya Sri
3	NAVIGATING THE GREEN TRANSITION: ADVANCED POWER MANAGEMENT STRATEGIES FOR RENEWABLE ENERGY GRIDS	202441054014	15-07-2024	02-08-2024	-	1. Dr. K. Amritha

S.No.	Title of the Patent	Patent Number	Date of Filing	Date of Publishing	Date of Grant	Inventor Names
4	OPTIMIZING AC DRIVE OPERATIONS WITH SINUSOIDAL PWM: A COMPARATIVE STUDY	202441053641	14-07-2024	02-08-2024	-	1. Banka Sujatha
5	HYBRID NANOCOMPOSITE SOLID POLYMER ELECTROLYTE FOR SOLID-STATE SODIUM-ION BATTERY	202441056771	26-07-2024	02-08-2024	-	1. Anji Reddy Polu 2. Venkanna Mekala 3. Shufeng Song 4. Aseel A. Kareem 5. Pramod K. Singh 6. Serguei V. Savilov 7. Hussein Kh. Rasheed 8. Chava Sunil Kumar
6	A REMOTE DIAGNOSTIC SYSTEM FOR ASSISTED LIVING UTILIZING INTERNET OF THINGS (IOT), TAILORED FOR RURAL REGIONS	202441043851	06-06-2024	14-06-2024	-	1. Mr. Guruswamy Revana 2. Dr. Ch. Sunil Kumar 3. Ms. Shaik Nafeesa Khaisar
7	IOT-BASED REAL TIME AQI MONITORING	202441040003	22-05-2024	31-05-2024	-	1. Dr. Ch. Sunil Kumar 2. Ms. B. Sujatha 3. P. Kavya Sri 4. J. Divya 5. V. Krishna Pravallika
8	SMART HOME ENERGY MANAGEMENT SYSTEM	405409-001	23-01-2024	05-04-2024	-	1. Dr. Balusu Srinivasa Rao
9	OPTIMIZED RULE-BASED PEAK SHAVING METHOD CONSIDERING ENERGY BUYING PRICE LIMIT ALONG WITH THE IMPORT AND EXPORT POWER LIMITS	202441023044	24-03-2024	29-03-2024	-	1. Rampelli Manojkumar

S.No.	Title of the Patent	Patent Number	Date of Filing	Date of Publishing	Date of Grant	Inventor Names
10	OPTIMIZED RULE-BASED VOLTAGE CONTROL METHOD THROUGH VOLTAGE SET POINTS AND LIMIT DIFFERENCES	202441017674	12-03-2024	29-03-2024	-	1. Rampelli Manojkumar
11	VEHICLE SPEED CONTROL AND ACCIDENT-AVOIDANCE SYSTEM	202441019698	17-03-2024	29-03-2024	-	1. K. Rathnamma 2. Anusha Pulipati 3. Ankitha Bodupalli 4. Deekshitha Kanumuri 5. Rampelli Manojkumar
12	A METHOD AND SYSTEM OF IMPROVING CYBER SECURITY BY IMPROVED PREDICTION POTENTIAL OF MACHINE LEARNING MODELS	202441020146	18-03-2024	29-03-2024	-	1. Dr. M. Indrasena Reddy 2. Ms. B. Sujatha 3. Dr. K. Bhavya
13	JAL KI RANI: UNIQUE ADVANCED METHOD OF FISHING WITH ROBO FISH MODEL	202441021998	21-03-2024	29-03-2024	-	1. Guruswamy Revana 2. Shaik Nafeesa Khaisar 3. Babita Gupta
14	NOVEL AUTONOMOUS DRONE TECHNOLOGY FOR HUMAN RESCUE OPERATIONS: SAFEGUARDING LIVES	202441017573	12-03-2024	22-03-2024	-	1. Guruswamy Revana 2. Shaik Nafeesa Khaisar 3. Babita Gupta



BVRIT HYDERABAD College of Engineering for Women

Nizampet Road, Bachupally, Hyderabad-500090

Department of Electrical and Electronics Engineering

List of Patents

2022-23

S.No.	Title of the Patent	Patent Number	Date of Filing	Date of Publishing	Date of Grant	Name of the Inventors
1	IoT based solar powered agriculture robot	380905-001	07-03-2023	26-05-2023	-	1. Mr. Guruswamy Revana 2. Mr. Mailugundla Rupesh 3. Ms. Sujatha Banka 4. Ms. Bhavya Kanchanapalli
2	IoT based height adjustable wheel chair with alerting unit	374745-001		03-02-2023	-	1. Dr. Rajeswari Viswanatha 2. Mr. Guruswamy Revana 3. Ms. Babita Gupta
3	Solar Powered Agricultural e-Vehicle	6256059	19-01-2023	30-01-2023	29-01-2023	Dr. B. Srinivasa Rao
4	AI BASED SMART WALKING STICK FOR VISUALLY IMPAIRED WITH ALERTING UNIT	377871-001	-	23-01-2023	-	1. Ms. Babita Gupta 2. Dr. Rajeswari Viswanathan



BVRIT HYDERABAD College of Engineering for Women

Nizampet Road, Bachupally, Hyderabad-500090

Department of Electrical and Electronics Engineering

List of Patents

2021-22

S.No.	Title of the Patent	Patent Number	Date of Filing	Date of Publishing	Date of Grant	Name of the Inventors
1	A Series Capacitive Compensation Technique with Design Based Iterative Algorithm for Mitigation of Ferranti Effect in EHV and UHV Power Transmission Systems	202241027437	12-05-2022	27-05-2022	-	1. Dr.Ch.Sunil Kumar
2	A Drone based Automatic and Autonomous Thermal Study on Sensitive and Isolated Electrical Equipment	202241012635	08-03-2022	18-03-2022	-	1. Dr.V.Rajeswari 2. Mr.R. Guruswamy 3. Ms.Babita Gupta
3	An IoT based Automated Drip Irrigation System by Predicting Weather Condition and Water Requirement in the field operator	202241005055	31-01-2022	04-02-2022	-	1. Dr.V.Rajeswari
4	A Machine Learning based Bandwidth Monitoring and Notification System for Ensuring Effective and	202241000029	01-01-2022	14-01-2022	-	1. Dr.V.Rajeswari

S.No.	Title of the Patent	Patent Number	Date of Filing	Date of Publishing	Date of Grant	Name of the Inventors
	Quality Service of Telecom Operator					
5	Ensuring the packaging of quality fruits through appropriate selection by implementing the image processing technique	202141056006	02-12-2021	10-12-2021	-	1. Dr.V.Rajeswari
6	Managing EVs in the smart grid Using AI and Secured IoT Technology	202141053795	23-11-2021	10-12-2021	-	1. Ms.K.Bhavya 2. Ms.B.Sujatha
7	Method and System for Implementing Power Grid Control Operations using Big Data based Artificial Intelligence Techniques	202141054474	25-11-2021	10-12-2021	-	1. Dr.V.Rajeswari 2. Mr.R. Guruswamy 3. Ms.Babita Gupta