



# SRI VENKATESWARA COLLEGE OF ENGINEERING (Autonomous)

Karakambadi Road, Opposite LIC Training Centre, Tirupati – 517 507.  
Accredited by NBA (B.Tech – CSE, ECE,EEE,Mech., Civil and IT) & NAAC with ‘A’ Grade  
Approved by AICTE, New Delhi permanently affiliated to JNTUA, Ananthapuramu.

## Department of Electrical and Electronics Engineering

### Patent Publications/Grants A.Y 2024-2025

S. No	Name of the Faculty	Title	Application No.	Status	Date
1	Dr.P .Suresh	AI Based Virtual Reality (VR) Device	451760-001	Granted	15-04-2025
2	Dr. V Lakshmi Devi Dr. Kumar K	Smart Home Ecosystem with Centralized Control and Personalized Automation	202541023123 A	Published	28-03-2025
3	Dr. V Lakshmi Devi Dr. Kumar K	Intelligent Robotic Battery Swap Technology for Electric Vehicles	202541023286 A	Published	28-03-2025
4	K.Prathibha P.Vinod Kumar G.Dilli Babu K.Rooparaj	Intelligent Battery Management System for Optimized Charging and Discharging in Electric Vehicles Using AI&IOT	202541021197A	Published	21-03-2025
5	Dr. B. Venkatesh Reddy	Deep Learning Based Magnetic Resonance Imaging Scanning Device	443278-001	Granted	11-03-2025
6	M.Jyothsna Devi J.A.Bhasakar	Applications of Magnetohydrodynamic(MHD) Nanofluid Dynamics in Flexible Surface Mechanisms	202541017068A	Published	07-03-2025
7	Dr. V Lakshmi Devi Dr. Kumar K	Self-Cleaning Solar Panels with Foldable Design	202541016609 A	Published	07-03-2025
8	Dr. V Lakshmi Devi Dr. Kumar K	Ultra-Thin, Rollable Solar Panels with Wireless Charging	202541016666A	Published	07-03-2025
9	M. Jyothsnadevi	Advanced Magnetohydrodynamic(MHD) Techniques For Enhancing Heat Transfer in 3D Nanofluid Systems	202541008480 A	Published	14-02-2025
10	P. Vinod Kumar	Predicting The Stability of Perovskite Solar Cells with Advanced Machine Learning	202511004211 A	Published	31-01-2025
11	Dr K Sudheer	Multifaceted Table	428233-001	Granted	15-01-2025
12	Dr B Venkatesh Reddy	Advance IoT and Machine Learning Solutions for Sustainable Groundwater Management Using Fuzzy Integral N-Transforms	202441104109 A	Published	10-1-2025
13	Yelamaneni Harikrishna	Sensor-Based Security Device Embedded with Cloud Connectivity	6413753	Granted	6-1-2025
14	G. Dilli Babu Dr. J.A. Baskar Nanda Kumar Enjeti	Energy Storage Solutions For Efficient Management of Fast Ev Charging Stations	202441091489 A	Published	29-11-2024
15	Dr B Venkatesh Reddy	Integrated AI and IoT Driven System for Smart Environment Control and Energy Optimisation in Public Infrastructure	202441089741 A	Published	29-11-2024



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16	Dr. Y Venkata Krishna Reddy G. Dilli Babu B. Sreenivas Reddy	Eco-Friendly Solar-Powered Electric Vehicles: A Sustainable Transportation Solution	202441091488 A	Published	29-11-2024
17	Dr. Shaik Rafi Kiran	Advanced Power Electronics for Renewable Energy Integration	L-155699/2024 Diary No: 26768/2024	Granted	25-10-2024
18	Mr. K. Raju	Real-Time Battery Discharge Prediction for Electric Vehicles Using Machine Learning Algorithms	202441080058A	Published	25-10-2024
19	Dr. V Lakshmi Devi Dr. Kumar K	IoT-Enabled Battery Unit With Smart Battery Management And Display	426163-001	Granted	8-10-24
20	Mr. K. Raju	Quantum Computing System for Achieving United Nations Sustainable Development Goals Through Advanced Simulation And Optimization	202441069606A	Published	20-09-2024
21	Dr. Kumar K Dr. V Lakshmi Devi Kuruva Raju Y Hari Krishna	Controlled Charging Hub for USB Devices in Electrical Switchboard	202441053653 A	Published	2-8-24
22	Dr. P Suresh E Nanda Kumar B Sreenivas Reddy K Yamuna	Multi-Purpose Self-Controlled Vehicle	419857-001	Granted	13-06-2024
23	Mr. G. Dillibabu	Real-Time Student and Employee Attendance Tracking using Facial Recognition and Internet of Things	202421015698 A	Published	29-03-2024



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1	Dr. Kumar K Dr. V Lakshmi Devi C Keerthi	Rechargeable LED Lighting System with Color Modulation, Multiple Illumination levels, and Ultrasound Pest Control	202341054392 A	Published	01-09-2023
2	M.Jyothsnadevi K.Prathibha N.Pushpa	Advanced Diagnostic Algorithm for Battery and Motor Anomalies in Electric and Hybrid Vehicles	202341064056	Published	06-10-2023
3	Dr. Shaik Rafi Kiran	Intelligent Conversational Agent for IoT-Enabled Communication Devices using Natural Language Processing and Machine Learning	202341062348 A	Published	06-10-2023
4	Dr. Shaik Rafi Kiran	Durable And High-Performance Lithium Ion Batteries With Nanostructured Cathode Materials	202341068059 A	Published	20-10-2023
5	Dr. JA Baskar G. Dilli Babu P. Vinod Kumar	Automated Text Composition System Based On Machine Learning And Deep Learning	202341066665 A	Published	20-10-2023
6	Dr K Sudheer Dr P Suresh Dr YV Krishna Reddy	Autonomous Agri Rover	398116-001	Granted	20-10-2023
7	Dr. Kumar K Dr. V. Lakshmi Devi	AI-Driven Electric Vehicle Charging System	202341071602 A	Published	01-12-2023
8	Dr. Shaik Rafi Kiran	Artificial intelligence-powered battery drain prediction and optimization for electric vehicles	202341066665 A	Published	15-12-2023
9	Dr. Y. V Krishna Reddy Dr. Shaik Rafi Kiran	Advanced 6G Infrastructure and Devices for High-Speed Global Connectivity and Augmented Reality Integration	202341080308	Published	22-12-2023
10	Dr. Shaik Rafi Kiran	Adaptive Solar-Photovoltaic and Battery Management System for Autonomous Vehicle Operations	202321080455	Published	22-12-2023
11	Dr. Shaik Rafi Kiran	Enhanced Energy Density Lithium Ion Batteries Using Nanostructured Electrode Materials	202321089031	Published	27-12-2023
12	Dr. Shaik Rafi Kiran	Nano-Enhanced PCM Formulations for Rapid Charge/Discharge in EV Thermal Energy Storage Systems	202341084574	Published	05-01-2024
13	Dr. Kumar K Dr. V Lakshmi Devi NM Girish Kumar K Raju P Suneetha K Roopa Raj Y Hari Krishna	Auto Rickshaw with LED advertising board powered by solar panels	390894-001	Granted	10-01-2024



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S. No	Name of the Faculty	Title	Application No.	Status	Date
14	Dr. Shaik Rafi Kiran	UK Design Patent : Sleek and Stylish Electric Scooter	6338963	Granted	12-01-2024
15	Dr. Kumar K Dr. V Lakshmi Devi Dr. A Sudhakar	Dynamic QR-Based Billing System for Contactless and Secure In-store	202441008477 A	Published	08-03-2024
16	Dr. Shaik Rafi Kiran Dr. K Sudheer Dr. YV Krishna Reddy Dr. JA Baskar B Sreenivas Reddy Nanda Kumar E G Dilli Babu	EV Battery Management System Enhanced by Solar Powered Fuzzy Logic	202441011246 A	Published	08-03-2024
17	Dr. Kumar K Dr. V Lakshmi Devi C Keerthi P Venkata Varaprasad	AI Driven Smart Electric Wheel Chair	202441017564 A	Published	22-03-2024
18	Dr. Shaik Rafi Kiran	Neural network-assisted diagnosis of electrical junction anomalies in EVs	202441028527 A	Published	19-04-2024
19	Dr. Shaik Rafi Kiran	Solar Powered Engine Cooling System for Electric Cars	6366660	Granted	17-05-2024
20	P Vinod Kumar Dr. P Suresh Dr. R Sireesh Dr. YV Krishna Reddy Dr. K Sudheer	Swift frame for electric bicycle	419507-001	Granted	10-06-2024



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S. No	Name of the Faculty	Title	Application No.	Status	Date
1	Dr. Kumar K Dr. V. Lakshmi Devi	Multi-Input Matrix Converter for Hybrid Solar and Wind System with Ex-OR Gate Logic	202241064970 A	Published	25-11-2022
2	Dr.P.Suresh Dr.Shaik Rafi Kiran Mr.E.Nanda Kumar Ms.K.Yamuna Mr.B.Sreenivas Reddy Mrs.R.Sireesha Dr.K.Sudheer	Smart Garbage Segregator And Energy Generator	202341027809 A	Published	05-08-2023



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### **Patent Publications A.Y 2021-2022**

S. No	Name of the Faculty	Title	Application No.	Status	Date
1	VenkatasupuraVemulapati Dr. Shaik Rafi Kiran Mrs. P. Suneetha Mr. P VenkataVaraprasad Dr. Kumar K	Droop Characteristics Based Power Supply for Electric Traction System	202141040185 A	Published	17/09/2021