



# CVR COLLEGE OF ENGINEERING

(An UGC Autonomous Institution with NAAC 'A' Grade, Affiliated to JNTUH)  
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## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### PATENTS PUBLISHED/GRANTED (A.Y. 2023-24)

S. No.	Academic Year	Patent Details	Name of the Faculty	Patent status published/ granted	Patent Number	Date of Published/ Granted
1	2023-24	Enhanced Mobile Broadband and Massive Machine Type Communication based 5G IoT Gateway	Dr. S. Praveen Chakkravarthy Pateel Yashwanth Kumar Reddy	Published	202341058420 A	8-9-2023
2	2023-24	Implementation of Ultra Reliable Low Latency Communication in Healthcare Sector using Augmented and Virtual Reality	Dr. S. Praveen Chakkravarthy Mohit Jain	Published	202341058651 A	6.10.2023
3	2023-24	Comprehensive Agricultural Drought Assessment	Dr. S. Praveen Chakkravarthy Pateel Yashwanth Kumar Reddy	Published	202341059464	6.10.2023
4	2023-24	Employees Attendance Using Voice Identification & Face Recognition Technology	Dr. P. Hemasree Dr. B. Janardhana Rao Dr. Venkata Krishna Odugu Dr. Gade Harish Babu Mr. L Manjunath	Published	202341070838	24.11.23
5	2023-24	A Novel Approach To Alleviate Divergent QoS In Millimeter Wave Backhaul Heterogeneous Networks	Mr. L. Manjunath Dr. Venkata Krishna Odugu Dr. B. Janardhana Rao Dr. Gade Harish Babu Dr. P. Hema Sree Ms. R. Prameela Devi	Published	202341071246	1.12.2023
6	2023-24	Ai Integrated Smart IoT Solution for Automatic Access Control	Dr. T. Swapna	Published	202341077829	22.12.2023
7	2023-24	Internet of Things (IoT) Based Smart Power Management System for Public Areas	Dr. Humaira Nishat Mr. Shakeel Ahmed Ms. R. Prameela Devi Ms. A. Malleswari	Published	202341084609	5.01.2024
8	2023-24	Intelligent Crop Planning - A Farm Gate to Fork Approach using IoT and AI	Dr. S. Praveen Chakkravarthy Smd Sahil	Published	202341087110	5.01.2024

9	2023-24	A Machine Learning and IoT Based Model Powered by Nitric Oxide to Enhance The Shelf Life of Fruits and Vegetables	Dr. S. Praveen Chakkravarthy Nukala Rikitha	Published	202341086229	12.01.2024
10	2023-24	An IoT Based Electric Vehicle Charging Station Intrusion Detection System Using Machine Learning	Dr. Venkata Krishna Odugu Dr. B. Janardhana Rao Dr. Gade Harish Babu	Published	202341089574	12.01.2024
11	2023-24	IoT based Nitric Oxide Preservation System to increase the Shelf life of Fruits and Vegetables	Dr. S. Praveen Chakkravarthy Anugu Sri Sai Nandini	Published	202441005064	9-02-2024
12	2023-24	Motion based Auto Door Opening using PIR Sensor	Ms. A. Malleswari R. Pameela Devi Dr. Humaira Nishat	Published	202442004113	9-02-2024
13	2023-24	Integrating Face Mask Detection and Body Temperature Monitoring For Enhanced Safety: A Technological Approach In The Post-Covid Era	Dr. Arun Kumar Katkooori Dr. D. Bhanu Prakash Mr. R. Prakash Kumar Mr. Devulapalli Shyam Prasad Mr. G. Santhosh Kumar	Published	202441005591	09-02-2024
14	2023-24	Smart Energy Management Between Electric Vehicle and Charging Station Through A Reliable Communication Link	Dr. Humaira Nishat Mr. Shakeel Ahmed Mr. G. Badri Narayana Mr. V. Harshith Reddy Mr. J. Lingaswamy	Published	202441002421	23-02-2024
15	2023-24	Design of 2D FIR Filter using Metaheuristic Optimization Algorithm and its Hardware Architecture Implementation with Low Power-Area-Delay and Memory	Dr. Venkata Krishna Odugu Dr. B. Janardhana Rao Dr. Gade Harish Babu	Published	202441002036	23-02-2024
16	2023-24	Development of Low-Cost Automatic Gas Booking and Gas Leakage along with Voice Alerts for Home Safety and Security Applications	Dr. Gade Harish Babu Dr. Venkata Krishna Odugu Dr. B. Janardhana Rao Mr. Madarapu Akshay Mr. Kola Anu Sathvik Reddy Mr. Nimmana Shanmukha Sai	Published	202441012561	8-03-2024
17	2023-24	Micro Controller Based Voice Controlled Sweep	Malleswari Akurati D. Shyam Prasad	Published	202441009991	8-03-2024

		Robot for Vertical Tile Cleaning	Dr. Humaira Nishat R. Prameela Devi Srikanth Bethu Ch. Shravani			
18	2023-24	A System and Method for Touchless Disinfecting Contraption using UV-C Light	Dr. Dhruva.R. Rinku	Published	202441014837	8-03-2024
19	2023-24	Android Controlled Water Tap for Under Ground Tank	R. Prameela Devi Malleswari Akurati Dr. Humaira Nishat D. Shyam Prasad L. Manjunath Ch. Shravani	Published	202441011602	08-03-2024
20	2023-24	An Intelligent Baby Monitoring System using Machine Learning	Dr. K. Arun Kumar R. Prameela Devi Malleswari Akurati	Published	202441016252	22/03/2024
21	2023-24	RB Allocation Scheme for EMBB And URLLC Coexistence In 5G and beyond	Mr. B. Ramesh Mr. R. Prakash Kumar Dr. Humaira Nishat Dr. S. Praveen Chakkravarthy	Published	202441018418	29/03/2024
22	2023-24	EMBB And URLLC Service Multiplexing Based on Deep Reinforcement Learning In 5G and beyond	Mr. R. Prakash Kumar Dr. Humaira Nishat Mr. B. Ramesh Dr. S. Praveen Chakkravarthy	Published	202441020282	29/03/2024
23	2023-24	Feature Selection Based Machine Learning Models for 5G Network Slicing Approximation	Dr. Humaira Nishat Mr. B. Ramesh Mr. R. Prakash Kumar Dr. S. Praveen Chakkravarthy	Published	202441020287	29/03/2024
24	2023-24	Early Identification of Structural Anomalies Through IoT	Dr. Arun Kumar Katkooor Mr. V. Rahul Mr. P. Samartha Uttej Vamsi Mr. B. Ravikanth Reddy Mr. S. Pranay Raj	Published	202441023679	05-04-2024
25	2023-24	Enhanced Deep Learning Approach in IoT-Assisted Monitoring for Alzheimer's Patients	Dr. Swapna. T	Published	202441039817	31/05/2024