

MVGR COLLEGE OF ENGINEERING (AUTONOMOUS), VIZIANAGARAM

CONSOLIDATED LIST OF PATENTS

Particular	Count
Total Patents	106

S.No.	Faculty / Authors / Inventors	Dept	Patent Details	Patent status (Filed / Published / Granted)	Patent Number / Application No.	Publication Date
1	Mr. Satish Kumar Mirtipati	CSE	A system and method for context-aware adaptive sanitation using multi-sensor fusion and behavioural analysis in smart toilets	Published	202641034316	10-Apr-2026
2	Dr. E. Jagadeeswara Rao, Mr. Naguboina Gopi Chand, Dr. Tataverthi S V Krishna, Mr. Ravi Tejesvi Valiveti, Dr. K. V. Ramana Rao, Dr. K V Gowreesrinivas, Duppala Hemanth, Vedula Sai Mani Pavan, Gandhi Maneesha	ECE	IoT-Powered Smart Agri-Watering System	Published	228887	01-Apr-2026
3	Dr. M. Satyanarayana, Mr. K. Rakesh, Ms. M. Vinanthi, Mr. N. Gowtham Shankar Adithya, Mr. Thulimilli Prem Bosco	ECE	An Autonomous Robotic System for Elderly Assistance with Adaptive Path Planning, Face Recognition and Gesture Based Interaction in Indoor Environments	Published	202641021485	06-Mar-2026
4	k.pavan kumar	Mechanical	Graphene-Enhanced Dmannitol Phase Change Composites for Thermal Energy Storage: Thermal Stability and Machine Learning-Based Degradation Modeling	Published	202641011331	13-Feb-2026
5	k.pavan kumar	Mechanical	Enhanced Thermal Stability of Nano-Dropped Paraffin Wax for Low Temperature Phase Change Energy Storage	Published	202641008450	13-Feb-2026
6	1.Dr. YALAKALA DINESH KUMAR 2. AYYAGARI PRASADA RAO 3.IMANDI GAYATHRI 4.GOGU LALITHA	Data Engineering	Malicious Activity Detecting and Alerting Device Using Deep Learning	Published	468608-001	01-Jan-2026
7	Swarna Munukoti	IE&CT	DOLPHUS: A Hybrid Distributed-Intelligence Framework for Multi-Dimensional Data Analysis and Prediction	Published	202541090164 A	24/10/2025
8	SATYANARAYANA GOGULA, KOONA RAMJI, RAMA MURTY RAJU P	Mechanical	Digital Twin Framework for Real Time Simulation, Monitoring and Predictive Maintenance of Three Axes CNC Machines in Industry 4.0 Environments	Published	202541088536A	10-Oct-2025
9	PONNADA, Sudheer	Civil	An Apparatus For Casting A Coarse Aggregate Mixture Using Thermosetting Polymer And Waste Materials	Published	202341090184 (IN)	03/07/2025
10	P.Venkata Ramana Rao,G.Srinivasa Rao, Kalyana Chakravarthu Mutnuru, Ramkumar.G,Kameswara rao	Chemistry	Self Healing Nanocomposite Coatings for	Published	202541047062 A	30-May-2025

S.No.	Faculty / Authors / Inventors	Dept	Patent Details	Patent status (Filed / Published / Granted)	Patent Number / Application No.	Publication Date
			Extreme Environments			
11	Ravi kumar kottala	Chemical	A Hybrid Solar Energy System for Simultaneous Generation of Hydrogen, Electricity and Desalinated Water	Published	202541042996A	30-May-2025
12	Dora Nagaraju, Siva Subrahmanyam Mendu, Neelima Devi Chinta	Mechanical	PCM-Integrated Roof System for Enhanced Thermal Regulation and Domestic Hot Water Generation	Published	202541037345	16/05/2025
13	Dr,Gonne Neelakantam	IT	AI Based Remote Patient Monitoring Device	Published	443359001	24-Mar-2025
14	Dr. Sudheer Ponnada	Civil	A Method for producing Geopolymer Concrete-based paver blocks using floor tile waste and granite powder	Published	202541020102A	21-03-2025
15	Mirtipati Satish Kumar	CSE	Adaptive IoT-Based Smart Traffic Monitoring and Accident Mitigation System Using Machine Learning	Published	202541013276	21-Feb-2025
16	1 . Mrs.P.Anantha Lakshmi 2 . Dr.Kalyana Chakravarthy Chilukuri 3 . Ms.Pala Pooja Ratnam 4 . Dr.Ch Sekhar 5 . Mrs. Dogga Aswani 6 . Dr.M.Seshashayee 7 . Mrs.JhansiRani Ganapa 8 . Dr.Chandra Sekhar Musinana 9 . Dr.Marada Srinivasa Rao	IT	IoT-Enabled Smart Road Safety System with Machine Learning for Accident Prevention	Published	202541010577	14-Feb-2025
17	Dr A Ashok Kumar	ECE	Design of segmented current steering DAC using compact DEM method for wireless sensor networks	Published	202441075532A	18-10-2024
18	Mr. Shanmukha Rao Narsupalli,Mr. K. Satyanarayana Raju,Mr. Ashok Kumar Adepu Dr. M. Satyanarayana, Dr. V. Lavanya Dr. M. Laxmi Prasanna Rani	ECE	Artificial intelligence based device for detection of oral cancer	Published	422989-001	22-08-2024
19	Murali Mohan Cheepu, Siva Subrahmanyam Mendu, Padmaja Appikonda, Ragavanantham Shanmugam	Mechanical	Thermal Energy Storage Testing Device	Published	6369322	11-06-2024
20	S. Balamurugan Ravindra Changala Dr. Prabhakar Kandukuri Dr. Bharati Wukkadada Dr. Priya Arundhati K. Kiranmai Dr. Varinder Singh P. Chenchu Saibabu Dr. Pavithra G. Dr. Mangala Gowri S.G. Dr. Rangaswamy Y. Dr. T.C. Manjunath	IT	Intelligent Bionic Arm for Assisting Amputees Using Convolutional Neural Networks	Published	21	17-May-2024
21	N. Shanmukha Rao	ECE	Ai-Driven Personalized News Recommendation System To Analyze User Preferences And Behaviors, Delivering Tailored News Content Based On Individual Interests	Published	202441032525 A	03-05-2024
22	Marrapu Aswini Kumar	Data Engineering	Smart Watch	Published	6342876	09-Apr-2024
23	Sarat Kumar Sahu	EEE	Compact Portable Charger with Built-in Solar Panels	Published	6352308	20-03-2024
24	Dr. P. Sudheer	Civil	Eco-friendly paver blocks and method for manufacturing the same	Published	202441015034 A	15-03-2024
25	1) M. Venkata k1)Anil Neerukonda 2)Badukonda Madhusudhana Rao 3)Sudha Rani,4)K.Mohanaleela, 5)Dr. K. Padmavathi 6)Katakam Geethanjali 7)Balam kalyani 8)Adulapuram Pradeep	CSE	Developing AI-Driven Predictive Analytics in IoT Healthcare Systems for Early Disease Detection	Published	202441011188 A	08-Mar-2024
26	G.Sri Rupa	IT	Hierarchical Data Storage and Retrieval Architecture for Cloud Based Big Data Management	Published	202421009188	08-Mar-2024
27	Siva Subrahmanyam Mendu, Padmaja Appikonda,Murali Mohan Cheepu	Mechanical	Digital Welding	Published	402409-001	05-03-2024

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			Apparatus			
28	Mr. R. Sivasankar, Dr. M. Marikkannan, Mrs. P. Monika, Muralo Mohan Vutukuru, Dr. P. Malathi, Nithya Nandhakumar, Dr. C.R.Rene Robin	Data Engineering	Optimizing Machine Learning Workload Task Scheduling in Cloud Environments	Published	202441007498	01-Mar-2024
29	Marrapu Aswini Kumar	Data Engineering	Portable Aquarium Aerator Tracking Robot	Published	09/2024	01-Mar-2024
30	Dr. P. Markandeya Raju, Konathala Mohan, V Prasanna Sai	Civil	An Innovative Composition of Bead Wire Reinforced Concrete and Method of Preparing the Same	Published	202341039468	23-02-2024
31	Siva Subrahmanyam Mendu, Padmaja Appikonda, Murali Mohan Cheepu	Mechanical	Digital Welding Aparatus	Published	401881-001	16-02-2024
32	Marrapu Aswini Kumar	Data Engineering	Integrated Machine Learning-Assisted System and Method for Efficient Image Filtering on FPGA	Published	202441002051	16-Feb-2024
33	Dr. P. Sudheer	Civil	An apparatus for casting a coarse aggregate mixture using thermosetting polymer and waste materials	Published	202341090184 A	26-01-2024
34	Marrapu Aswini Kumar	Data Engineering	IoT-Enhanced Dedicated Drone-Based Testing of Building's Strength Located in a Hazardous Environment	Published	202431001277	26-Jan-2024
35	Murali Mohan Cheepu, Padmaja Appikonda, Siva Subrahmanyam Mendu	Mechanical	AI based Additive Manufacturing Device	Published	6333774	04-01-2024
36	Mrs. U.N Subhdra Devi	ECE	A SYSTEM FOR FILTERING FAST PARTICLE AND TRACKING RHYTHMIC BIOMEDICAL SIGNALS AND METHOD	Published	202341075591 A	22-12-2023
37	Mrs. U.N Subhdra Devi	ECE	PARTICLE FILTERING WITH 3S LIMITS AND METHOD THEREOF	Published	20234102094 A	01-12-2023
38	Dr.D.RAJA RAMESH	ECE	Integration of Devices With VLSI Structure And Packaging	Published	202341067297 A	24-11-2023
39	Dr. M Sunil Prakash Dr.P.Ujjvala Kanthi Prabha Dr. T A N S N Varma Dr G Vimala Kumari	ECE	Intelligent IOT-Based Maternal Health Monitoring Device with Cloud Integration	Published	202341060034 A	06-10-2023
40	B. PRAVEEN SAI	ECE	A Universal Generalized Flip Decoder And A Method Of Decoding Thereof	Published	202241074335	24-07-2023
41	1) Ravi Gorli 2) Bagusetty Ajay Ram 3) Andhavarapu Bhanusri 4) Varri Uma Shankar Rao	IT	AI/ML-Based Intelligent Chat Service for Regional Language	Published	202341027096	05-May-2023
42	Dr.D.RAJA RAMESH	ECE	VLSI layouts for connected and pyramid networks using deep neural learning	Published	202341014746 A	17-03-2023
43	Dr.A. Lakshmana Rao, Dr.P.Sudheer Kumar, Dr.R.Santhi Kumar, Mr.S.Arun Kumar, Mr.T.S.Viswanadham, Mr.K.Seetharam, Mr.P.E.Sayanarayana, Mr.Suryanarayana P.S.Kornu, Mr.B.Venkata Rao.	Maths	A System and Method for Freeform Mathematical Parsing and Grading of an Arithmetic Expression, Using AI & ML Interface	Published	202341007734	17-Feb-2023
44	Dr. B. Venkata Rao	Maths	A System and Method for Freeform Mathematical Parsing and Grading of an Arithmetic	Published	202341007734A	17-Feb-2023

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			Expression, Using AI & ML Interface			
45	1 . Dr. B. Pardha Saradhi 2 . Dr. Sunil D. Bagde 3 . Dr. Rudra Ravi Kumar Palegari 4 . Dr. S. Sridevi 5 . Dr. V. Bhagyalakshmi 6 . Mr. Nitin Sampat Abhale 7 . Mr. Shivaji Sampat Pawar 8 . Dr. Kotla Revathi 9 . Dr. Bhagavathula Venkata Narayana Murthy 10 . Mr. Keshav Kumar K	Maths	Accelerating Gaussian Elimination Using a Vector Matrix Multiplication Accelerator	Published	202341004270	17-Feb-2023
46	Mr.K.S.Ravikumar	EEE	High gain non isolated bidirectional DC-DC converter	Granted	202141051219	16-01-2023
47	1 . Dr. I. Paulraj Jayasimman 2 . Dr. N.N.V. Sakuntala 3 . Dr. G. Jayalalitha 4 . Mrs. S. Kavitha 5 . Dr. O. V. Shanmuga Sundaram 6 . Dr. Bhagavathula Venkata Narayana Murthy 7 . Dr. V.V.R. Rama Bhadri Raju 8 . Dr. Tirumalaraju Vidya Sagar 9 . Dr. A.P. Phaneendra Kumar 10 . Mr. Keshav Kumar K	Maths	Graph Theory Based Objective Measurement of Attributes of Website	Published	202341001635	13-Jan-2023
48	1 . Dr. R. Vijayalakshmi 2 . Dr. A. Anne Rosaline 3 . Mr. Charanjit Singh 4 . Ms. Shagun Seth 5 . Ms. Niti Mittal 6 . Dr. M. Elakkiya 7 . Dr. V.V.R. Rama Bhadri Raju 8 . Dr. Bhagavathula Venkata Narayana Murthy 9 . Dr. S. Sridevi 10 . Dr. B. Nageswara Rao 11 . Mr. Jugal Kishore	Maths	A Method of Prime Labelling of Connected Graphs	Published	202341001633	13-Jan-2023
49	G Pramod Kumar, Ravi Kumar K	Mechanical	Conductive coating for low temperature solid oxide fuel cells	Published	202241069315	09-12-2022
50	M. Yerni Prasada Rao, K. Pavan Kumar	Mechanical	Design and Manufacture of manual electrode coating machine for small scale arc welding electrode manufacture	Published	202241069327 A	09-12-2022
51	K Ch Sekhar, Surakasi Raviteja, M. Yerni Prasada Rao, N. Japhia Sudarsan, Krishna Prafulla Badi, Bala Divya Potnuru	Mechanical	Impact and recent application of green concept in mechanical design and manufacturing	Published	202241069379 A	09-12-2022
52	Dr.G Vimala Kumari	ECE	A wearable pregnancy monitoring apparatus to collect physiological parameters	Published	202241064840A	18-11-2022
53	Varun Chebrolu	Mechanical	Biomedical interventions for analysis of gene mutations of cancer patients for early prediction and diagnosis of the disease	Published	202241058967	28-10-2022
54	Avinash Gandhi, Praveen Kalla, Koona Ramji, P Ravindranath	Mechanical	A Modular Underwater Vehicle System for Maintenance, Surveillance and Reconnaissance Operations	Published	202141018629	28-10-2022
55	Dr. Jayasri kotti	Data Engineering	Device to Detect Efficiency of Employees in Office Environment	Published	369978-001	22-Oct-2022
56	Dr.BVN Murthy	Maths	Analyzing Relevance Between Nodes Using Graph Theory	Published	202221057689	21-10-2022
57	Dr. P. Sudheer	Civil	A Contrived Aggregate Composition for Concrete and Equipment for Its Preparation	Granted	409436	20-10-2022
58	Dr.M.Satyanarayana Dr.V.Lavanya Dr.M.Laxmi Prasanna Rani Dr.B.Srinivas	ECE	A System for Image spectral extraction using local covariance and convolution in Hyper Spectral images	Published	202241050311 A	09-09-2022
59	Dr. D Raja Ramesh	ECE	A Smart Grid Networks with an artificial Intelligence based IOT Secured System	Published	202241050353 A	09-09-2022
60	Dr.BVN Murthy	Maths	An Algebra Balancing Device Having An Imbalance	Published	202241035661	22-07-2022

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			Correction Mechanism			
61	Praseeda Dandu	Civil	Fabrication of Vitricks	Published	2022410347487	22-07-2022
62	Dr.BVN Murthy	Maths	Groundwater Level Prediction Using Statistical Modeling Techniques	Published	202241040802	22-07-2022
63	V.Vinay, Prof. S.Adisehsu and Dr. S.Chandramouli	Civil	A Pervious Concrete Composition & Preparation Methods and Process of Artificial Recharge of Groundwater in the Box Model	Granted	202241038722	15-07-2022
64	Dr M Anil Prakash, Dr B A Ranga nath, B Srinivas	Mechanical	3D Printing of BIO-Compatible Ceramics as Scaffolds	Published	202211032959 A	24-06-2022
65	Mr.Gurumurthy Nagiredla, Dr.Narendra Kumar Yegireddy, Prof. G.Raja Rao,Mr.K.S.Ravi Kumar, Dr.Balamurali Surakasi, Dr.T.A.N.S.N. Varma	EEE	Switched Capacitor Based Multi-Level Inverter	Published	202241028780	17-06-2022
66	Praseeda Dandu	Civil	Carbon NanoTubes Based Concrete Composition	Published	202241025509	20-05-2022
67	Dr. P. Sudheer	Civil	Hybrid Mortar Composition	Granted	380398	21-04-2022
68	Dr.A.P.Paneendra kumar	Maths	An Ai Based Education Training In Mathematics And Numbersystem	Published	202241056883	10-04-2022
69	Dr. S.V.A.R.Sastry,Dr. B.Sarva Rao, Dr. D.V.Padma, Mrs. R.Hemalatha	Chemical	A Composite Smart Clean Energy Device based on Wind and Solar Energy and Method thereof	Published	202241004366	25-02-2022
70	Dr R S Umamaheswara Raju	Mechanical	Smart System for Adaptive Surface Roughness Control of Work piece and Method Thereof	Published	202241007236 A	18-02-2022
71	Dr. P. Sudheer	Civil	Geo Polymer Concrete Composition using Quarry Dust and Contrived Aggregates	Granted	385201	27-12-2021
72	Mr. GNV Raja Reddy, Dr. V Nagesh	IT	An Efficient Artificial Fish Swarm Optimization Based Method For Disease Detection In Oryza Sativa	Granted (8 Years)	2021105554	10-11-2021
73	Dr. P. Sudheer	Civil	Hybrid Concrete Composition	Granted	395200	27-10-2021
74	Dr. M Satyanarayana, Dr. V N L Kumar	ECE	Advanced metasurface superstrate structure for improvement of antenna performance	Published	202141038830	10-09-2021
75	Dr.S.V.A.R.Sastry & Others	Chemical	Non aqueous nano cooling oil suitable for high temperature of engines in vehicles	Published	202141031983	13-08-2021
76	Dr. S.V.A.R.Sastry & Others	Chemical	Nano biocompatible hydrogels for treating external injuries	Published	202141035949	13-08-2021
77	Dr. M.Sunil Prakash, Dr. M. Satyanarayana	ECE	Patch Antenna, Method of Manufacturing And Using Such An Antenna, And Antenna System	Published	202111022123A	28-05-2021
78	Dr. M.Sunil Prakash, Dr. G. Vimala Kumari	ECE	Automatic Pulses/Dals/Cereals Dispenser using Electronic Valves	Granted	2021101845	19-05-2021
79	Dr. K.V.L Raju, Mr. K. Praveen, Mr. M. Anil Praksah	Mechanical	System and Method for Planning a Planar or Spatial Path for an	Published	202141018630	30-04-2021

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80	Dr. V Nagesh	IT	Autonomous Vehicle A system and method for recognizing the emotions based on electrical bio-signals and speech signals	Granted (8 Years)	2021102045	19-04-2021
81	Dr. P. Sateesh	CSE	Rapid plastic detection in sea shore using Convolutional Neural Networks in Autonomous cleaning vehicle	Published	2021100484	31-03-2021
82	Dr. B. Venkata Rao	Maths	MDE – Symbolic Calculations: Method for Live Symbolic Calculations in a Math Document Intelligent Editor	Published	202041051001	29-Jan-2021
83	Dr. V Nagesh	IT	Flexible Spacesuit Hand Gloves	Published	202041055099	25-12-2020
84	Dr. V. Lavanya	ECE	Automatic detection system for Focal EEG signals with adaptive wavelet Transform	Published	202041052559	11-12-2020
85	Dr. V N L Kumar, Dr. M. Satyanarayana	ECE	Design of Split Ring Resonator Superstrate for Sidelobe Suppression of Microstrip Array Antenna	Published	202041046456 A	06-11-2020
86	Dr. P Surya Prasad, Dr. B Srinivas	ECE	Automatic Brain tissue segmentation by supervoxel clustering	Published	202041044843A	30-10-2020
87	1)Dr. ROJEENA ABY MATHEW (ASSOCIATE PROFESSOR) 2)Dr. V. MADHUSUDHAN RAO (PROFESSOR) 3)Mr. MARADA SRINIVASA RAO (ASSISTANT PROFESSOR) 4)Mr. MADDALA PADMAKAR (ASSISTANT PROFESSOR) 5)Mr. PRAVEEN NADUPURI (ASSISTANT PROFESSOR) 6)Mrs.PUJA PRASAD (ASSISTANT PROFESSOR)	IT	ITCA – Recycling of Dredging Material: Intelligent Technology to Recycling of Dredging Material and Sand for Construction Activities	Published	202041043841	30-Oct-2020
88	Dr. P. Srinivasa Rao	CSE	Auto-powered Assistive Device for Visually Impaired People	Published	2020102442	28-10-2020
89	Mr.K.V V Prasad	EEE	Image Compression in Automatic Contrast Enhancement System with Curve Fittings	Published	202041043966	16-10-2020
90	Dr. B Anjanadevi	IT	NAPR-Video Surveillance Systems: A Novel Approach for Privacy Preserving in Real Time Video Surveillance Systems	Published	202041038132	25-09-2020
91	Dr. B Anjanadevi	IT	IMD -CLIENT SEGMENTATION: Intelligent Client Segmentation using ML And DL Programming.	Published	202041034354	04-09-2020
92	Dr. B Anjanadevi	IT	IMOD-Video Surveillance Systems: Intelligent Moving Object Detection Model in Video Surveillance Systems	Published	202041035254	04-09-2020
93	Dr. P. Ravi Kiran Varma	CSE	A system for detecting and identifying the number plate of an at least a vehicle	Published	202041037446	31-08-2020
94	Dr. P. Ravi Kiran Varma	CSE	An apparatus for authenticating and	Published	202041033809	07-08-2020

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			assessing the driving skills of an at least a person			
95	Dr. G. Vimala Kumari	ECE	High Speed Train Speed Predictive Control Using ANFIS modeling and machine learning.	Published	201941051039	20-12-2019
96	Mr.K.S.Ravikumar	EEE	Multi input reverse fly back converter	Published	201941044504	29-11-2019
97	Dr. V Nagesh	IT	Artificial Intelligence Based Automated Music Composing Model	Published	201941022847	02-08-2019
98	Dr. P. Srinivasa Rao, N. Sushma Rani	CSE	Artificial Intelligence Based Automated Music Composing Model	Published	201941013991	25-07-2019
99	Dr. P. Srinivasa Rao, N. Sushma Rani	CSE	Wearable device to monitor dehydration	Published	201941011593	08-04-2019
100	K S Ravi Kumar , N Guru Murthy	EEE	Multi Input Reverse Flyback Converter	Published	201941044504	11-01-2019
101	Dr R Ramana Reddy	ECE	3 Curvy Rectangular Slotted Substrate Integrated Cylindrical DRA with Wide CP Bandwidth and Enhanced Gain	Published	201741035257	05-10-2017
102	Dr R Ramana Reddy	ECE	A Quad-band Asymmetric Dual L – Slot fed Dielectric Resonator Antenna (DRA) with Circularly Polarized Bands	Published	201741035252	05-10-2017
103	Dr R Ramana Reddy	ECE	A Modified Bow-Tie Slotted Circular Patch Antenna	Published	201741034823	29-09-2017
104	D Raveendhra, K.S Ravi Kumar, V V Sastry	EEE	A Novel Bidirectional DC DC Converter	Published	201641038705	30-12-2016
105	Dr R Ramana Reddy	ECE	A New PCB Based Antenna for IoT Applications	Published	201641043764A	22-12-2016
106	Dr R Ramana Reddy	ECE	A Compact Hexagonal Triangular Fractal Antenna for Wideband Applications	Published	201741035252A	22-12-2016