



RGM COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS)

NANDYAL-518501, KURNOOL (Dt.), A.P., INDIA

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PATENTS FILLED, PUBLISHED AND GRANTED

S. No	Name of the Faculty Member	Patent Number	Title of the Patent	Patent Status	Date of Publishing / Grant of the Patent
1.	Dr. P. V. Gopi Krishna Rao	1964/CHE/2015	Analytical design and development of PID controller for disturbance rejection of first order and integrating processes	Published	16-04-2015
2.	Dr. P. V. Gopi Krishna Rao	201841033442	Multitasking Water Distribution, Management and accounting system	Published	06-09-2018
3.	Dr. P. V. Gopi Krishna Rao	201941001846	Toilet Arrangement With Squatting Facility	Published	16-01-2019
4.	Dr. K. Muralidhara Reddy	201941001846	Toilet Arrangement With Squatting Facility	Published	16-01-2019
5.	Dr. K. Muralidhara Reddy	281579	A polarimeter and method thereof	Granted	21-03-2017
6.	Dr. K. Muralidhara Reddy	PCT/IN2008/000530	A PC based Polarimeter based on Malus' law	Granted	17-12-2009
7.	Dr. K. Muralidhara Reddy	252830	Polarimeter (Design)	Granted	06-08-2013
8.	Dr. K. Muralidhara Reddy	2542548	Reddy's Force yoga	Granted	25-07-2018
9.	Dr. K. Muralidhara Reddy	201641012892	A sitting toilet assembly to assist user to achieve natural Squatting position without flexing the knees	Published	12-04-2016
10.	Dr. K. Muralidhara Reddy	PCT/INB2016/053526	A sitting toilet assembly to assist user to achieve natural Squatting position without flexing the knees	Published	15-06-2016
11.	Dr. P. V. Gopi Krishna Rao	PCT/IN2019/050498	Toilet Arrangement With Squatting Facility	Published	15-07-2019
12.	Dr. Ramakrishna Balijepalli	38520/201941018001	Design and development of solar updraft tower (SUT) plant for generating electrical power: A novel structure, appropriate materials with optimised collector angle	Published	06-05-2019
13.	Dr. P. V. Gopi Krishna Rao	2020102058	Multi-functional storage bottle with deformable spoon positioning	Granted	30-09-2020
14.	Dr. K. Muralidhara Reddy	PCT/IN2019/050498	Toilet Arrangement With Squatting Facility	Published	05-07-2019
15.	Dr R. Raja Kumar	202041010147A	IAEC-System Intelligent IOT system for Agricultural Environment Control	Published	09-03-2020
16.	Dr R. Raja Kumar	2020101987	DIMA-Data Set Discovery in Data Investigative using Machine Learning and AI based Techniques	Granted	26-08-2020

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17.	Sagenela Vijaya Kumar	201941039689A	A Secure Image processing system of biometric based automated ration distribution	Granted	18-10-2019
18.	Dr. N. MADHUSUDHANA REDDY	201941014136 A	METHOD FOR DETECTING ANTI PATTERNS IN WEB SERVICES AND BUSINESS PROCESSES	Published	08-04-2019
19.	Dr. N. MADHUSUDHANA REDDY	201941039689 A	A SECURED IMAGE PROCESSING SYSTEM OF BIOMETRIC BASED AUTOMATED RATION DISTRIBUTION	Published	01-10-2019
20.	Dr M.Surya Bhupal Rao	202041043122A	Borewell Rescue System Using Supervised Learning Techniques	Published	05-10-2020
21.	SHAIK RAHAMAT BASHA	202041043122 A	BOREWELL RESCUE SYSTEM USING SUPERVISED LEARNING TECHNIQUES	Published	05-10-2020
22.	Dr. P. V. Gopi Krishna Rao	2020103477	SMART REAL TIME ENERGY MANAGEMENT SYSTEM USING THINGSPEAK FOR SMART CITIES	Published	17-11-2020
23.	Dr. P. V. Gopi Krishna Rao	202041048978	A DEVICE TO PEEL FODDERS SKIN	Published	10-11-2020
24.	Dr. K. Mallikarjuna	201941008330	Computer Automated method for detection of brain tumour	Published	04-03-2019
25.	Dr. V. Nagabhaskar Reddy	2020103338	MULTIFUNCTIONAL CARRIER PROVISION TO EASE HANDLING STRAIN IN LAPTOP	Published	10-11-2020
26.	Dr M.Surya Bhupal Rao	2020102836	An efficient methodology to manage the admissions in hospitals during the pandemic such as COVID-19	Granted	19-10-2020
27.	DR. K. Rajendra Prasad	2020102836	An efficient Methodology to Manage the Admissions in Hospitals During the Pandemics Such as COVID-19	Granted	19-10-2020
28.	P. V. Gopi Krishna Rao	202041052263 A	A method and Device for the deformation of the waste containers through the pneumatic operated Cylinder	Published	01-12-2020
29.	Dr. Prahlada Rao BB	US 6725437B1	Performance Groups-Based Fast Simulated Annealing that improves Speed and Quality of VLSI Placement	Granted	20-04-2004
30.	Dr. Prahlada Rao BB	275095	A method and system for Debugging or run time profiling of heterogeneous computation al grids and/or geographically distributed systems	Granted	23-08-2016
31.	Dr. Prahlada Rao BB	#IP28544/RR/sk	Method and system for dynamic adaptation of program	Published	01-10-2014

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			execution on different target hardware		
32.	Dr. Prahlada Rao BB	1392/CHE/2013	A cloud storage service for cloud computing	Published	18-03-2013
33.	Dr M.Surya Bhupal Rao	2020102836	An Efficient Methodology to manage the admissions in hospitals during pandemic such as COVID 19	Granted	06-01-2021
34.	SHAIK RAHAMAT BASHA	202141019750	Machine learning based image processing system to analyse human skin quality	Published	07-05-2021
35.	SHAIK RAHAMAT BASHA	202141024010	Artificial intelligence based automated material management system	Published	18-06-2021
36.	DR. MD. ALAMGIR	2021102557	The Concrete Road by using Additive Manufacturing Process	Published	14-05-2021
37.	Dr. Upendra Rajak	2021100083	Dynamic Legged Locomotion Process Using The Spring loaded Inverted Pendulum (Slip) For Soft Robot.	Granted	17-03-2021
38.	Dr. Upendra Rajak	2021100783	A nano-coated internal combustion engine cylinder	Granted	07-04-2021
39.	Dr. Upendra Rajak	2021101982	A CHARGER OF LITHIUM ION BATTERY FOR SOLAR CELL	Granted	19-05-2021
40.	SURESH S RAO	202141012082	Monitoring and Control of Multiple Wireless Switch and Sensor Board Units using Star Zigbee Network and IoT	Published	22-03-2021
41.	Suresh S Rao	202141014716	Fan Speed Control using Capacitors, Triacs, Opto Isolators, Star Zigbee Network and IoT	Published	31-03-2021
42.	Dr. Abhishek Dasore	2021101982	A charger of Lithium-ion Battery for Solar Cell	Granted	19-05-2021
43.	Dr. Abhishek Dasore	2021100783	A composite Nano-coated internal combustion engine cylinder	Granted	07-04-2021
44.	Dr. Abhishek Dasore	345453-001	Heat exchanger	Published	29-06-2021
45.	337646-001	337646-001	Infrared Thermometer	Published	18-01-2021
46.	Dr. Prahlada Rao BB	US6725437B1	Performance Groups-Based Fast Simulated Annealing that improves Speed and Quality of VLSI Placement	Granted	20-04-2004
47.	Dr. Prahlada Rao BB	275095	A method and system for Debugging or run time profiling of heterogeneous computational grids and/or geographically distributed systems	Granted	23-08-2016
48.	Dr. Prahlada Rao BB	IP28544	Method and system for dynamic adaptation of program execution on different target hardware	Published	01-10-2014

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49.	Dr. Prahlada Rao BB	1392/CHE/2013	A cloud storage service for cloud computing	Published	28-03-2013
50.	Y Siva Kumar Reddy	AU 2021102000	A smart device for maintain greenhouse controlling environments	Granted	18-04-2021
51.	Dr. Manoj Panchal	2021100783	A composite nano coated Internal combustion engine cylinder	Granted	09-02-2021
52.	Dr. Ramakrishna Balijepalli	201941018001	Design and development of solar updraft tower (SUT) plant for generating electrical power: A novel structure, appropriate materials with optimised collector angle	Published	06-05-2019
53.	Dr. Ramakrishna Balijepalli	2021100783	A composite nano coated internal combustion engine cylinder	Granted	07-04-2021
54.	Dr. Ramakrishna Balijepalli	2021102000	A Smart Device For Maintain Greenhouse Controlling Environments Parameters	Granted	19-05-2021
55.	Dr. Ramakrishna Balijepalli	202141003312 A	Experimental Evaluation Of A Domestic Refrigerator Working With Lpg	Published	05-02-2021
56.	Dr. Ramakrishna Balijepalli	2021103321	Solar energy monitoring system by IOT	Published	14-06-2021
57.	MAHESWARI M	202141028782	Computational Optimization of VLSI physical Design with Graphical Processing Units Ising Method	Published	26-06-2021
58.	Valamiki Saraswathi	202141028782	Computational Optimization of VLSI Physical Design with Graphical Processing Units Ising Method	Published	26-06-2021
59.	Dr. Prahlada Rao BB,	4973/CHE/2014	Method And System For Dynamic Adaptation Of Program Execution On Different Target Hardware	Published	01-10-2014
60.	Ratan kumar S V	2021101982	A charger of lithium ion battery for solar cell	Granted	19-05-2021
61.	Dr R. Raja Kumar	2020101987	DIMA-dataset discovery: dataset discovery in data investigative using machine learning and ai-based programming	Granted	26-08-2020
62.	Abhishek Dasore	339893-001	Automated ambu bag respirator	Granted	19-01-2022
63.	Dr R. Raja Kumar	202041010147 A	IAEC- system: intelligent iot system for agriculture environment control	Published	09-03-2020
64.	Abhishek Dasore	345453-001	Heat Exchanger	Granted	27-12-2022
65.	Abhishek Dasore	2021101982	A charger of lithium ion battery for solar cell	Granted	19-05-2021
66.	Dr. M. Sravan Kumar Reddy	202141048961 A	IOT based technique for safeguarding fuel in vehicles	Published	26-10-2021

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67.	Dr.R.Kaviarasan	202141009700A	Self-diagnosis personalised women safety application model using machine learning approach	Published	09-03-2021
68.	Dr. N. Madhusudhana Reddy	201941014136	Method For Detecting Anti Patterns In Web Services And Business Processes	Published	08-04-2019
69.	Abhishek Dasore	337646-001	Infrared Thermometer	Granted	01-10-2021
70.	Dr. N. Madhusudhana Reddy	202241026106	Machine Learning Based Approach To Analyse The Data Recorded On Unmanned Aerial Vehicle(Uav) Systems To Predict The Natural Disasters	Published	05-05-2022
71.	Upendra Rajak	339893-001	Automated ambu bag respirator	Granted	19-01-2022
72.	Dr. N. Madhusudhana Reddy	202241074545	Machine learning based approach to automated attendanceand monitoring system	Published	22-12-2022
73.	Upendra Rajak	2021103321	Solar energy monitoring system by iot	Granted	09-03-2022
74.	Upendra Rajak	2021102644	Improving to the heat transfer rate for multi cylinder engine	Granted	23-06-2021
75.	Upendra Rajak	2021100783	A composite nano-coated internal combustion engine cylinder	Granted	07-04-2021
76.	Upendra Rajak	202121016243	An dynamically device for balancing food carrying	Published	18-06-2021
77.	Upendra Rajak	202121011669	A medical waste management system using iot method	Published	18-06-2021
78.	Upendra Rajak	202141013178	A system for preparing optimum diesel blends using waste plastic oil	Published	02-04-2021
79.	Upendra Rajak	202121003722	The structure of three speed gear box for vehicles	Published	19-03-2021
80.	Upendra Rajak	202141007888	The method of controlling dynamic vibration of drill bit	Published	05-03-2021
81.	Dr. MANOJ PANCHAL	339893-001	Automated AMBU Bag Respirator	Granted	28-02-2021
82.	Dr. Manoj Panchal	2021100783	A Composite Nano Coated internal Combustion engine Cylinder	Granted	09-02-2021
83.	Dr. Manoj Panchal	202121003722	The structure of three speed gearbox for vehicles	Published	28-01-2021
84.	Dr. P. V. Gopi Krishna Rao	202341014084	Agricultural field irrigation infrastructure monitoring: A comprehensive methodology there off	Published	02-03-2023
85.	Dr. N. Madhusudhana Reddy	202241026106	Machine Learning Based Approach To Analyse The Data Recorded On Unmanned Arial Vehicle(Uav) To Predict The Natural Disasters	Published	05-05-2022

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86.	K E Naresh Kumar	202241041957	Identification and elimination of frauds in land registration process using block chain	Published	22-07-2022
87.	Kunam Subba Reddy	202311040389 A	Machine learning-based insulin dosage monitoring system for control of blood glucose levels in type 2 diabetic patients	Published	14-06-2023
88.	Dr R Raja Kumar	6268965	Telescopic walking aid for handicap	Granted	17-03-2023
89.	k.viswanath	202341010686	Design of secure iot healthcare architecture with deep learning based access control system.	Published	17-02-2023
90.	Dr R. Raja Kumar	6278770	Wind/solar power charging station for vechicles	Granted	28-04-2023
91.	O SAMPATH	202321032231 A	A deep learning-based prediction model for supervising obstructive sleep apnea	Granted	06-05-2023
92.	Dr.R.Kaviarasan	202331020181 A	A smart travel gadget for instant beveraging	Published	22-03-2023
93.	Dr. M. Sravan Kumar Reddy	202141048961 A	IoT based technique for safeguarding fuel in vehicles	Published	26-10-2021
94.	K VISWANATH	202321032231	A deep learning-based prediction model for supervising obstructive sleep apnea	Published	06-05-2023
95.	O. SAMPATH	202341029522	Method and system for real-time image recognition and classification using deep learning and artificial intelligence	Granted	24-04-2023
96.	Dr. N. Madhusudhana Reddy	202241074545	Machine learning based approach to automated attendance and monitoring system	Published	22-12-2022
97.	Kunam Subba Reddy	6290445	AI-based student monitoring device for classrooms	Granted	16-06-2023
98.	P. V. Gopi Krishna Rao	202341014084	Agricultural field irrigation infrastructure monitoring: a comprehensive methodology there off	Published	02-03-2023
99.	Dr. M. Sunandana Reddy	202241009449	IoT based ac remote controller using google assistant	Published	22-02-2022
100.	Dr. Upendra Rajak Dr. Abhishek Dasore Dr. Manoj Panchal	339893-001	Automated ambu bag respirator	Granted	19-01-2022
101.	Dr. Manoj Panchal Dr. K. Thirupathi Reddy Dr. Syed Altaf Hussain Dr. V. Chandra Sekhar Dr. Bathini Sidda Reddy Dr. K. Sudha Madhuri Dr. Upendra Rajak	382204-001	Absorber plate of solar air heater with ribs	Granted	24-03-2023

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102.	UPENDRA, Rajak	1/2021/050335	The anaerobic digestion of fruit and vegetable process by water pretreatment	Published	26-07-2021
103.	Balijepalli, Ramakrishna Rajak, Upendra Dasore, Abhishek	2021103321	Solar energy monitoring system=' by iot	Granted	09-03-2022
104.	Dr.S.Venkateswarlu	202241075898	A system and a method of determining common fixed point in vector space using common limit range property	Published	27-12-2022
105.	Dr. S. Venkateswarlu	202341005637	A fixed-point iteration method for solving nonlinear equations	Published	28-01-2023
106.	Dr. S. Venkateswarlu	202341030942	A system and method for algebraic cryptography	Published	01-05-2023
107.	Dr.K.v.Suryanarayana Rao	202241054851	Detect desirable and undesirable characteristics in manufacturing process using graph theory	Published	25-09-2022
108.	Dr.K.V.Suryanarayana Rao	202341044492	Graph Theory based objective measurement of attributes of website	Published	03-07-2023
109.	Dr.K.V.Suryanarayana Rao	202341046833	A method of prime cordial labelling in special graphs	Published	12-07-2023
110.	Dr.Balakrishna Avula	202341028534	One-Pot Synthesis of Porous Gold Nanoparticles for Enhanced Catalytic Activity	Published	19-04-2023
111.	Dr. Balakrishna Avula	202341032229	Novel Biofunctional Iron Oxide Nanoparticles for Theranostic Applications	Published	06-05-2023
112.	Avula Balakrishna	202331032282	Composition of green-synthesized nanometals from plant extracts for use in antimicrobial coating	Published	07-05-2023
113.	Dr.A.Balakrishna	202341034408	A process for treating contaminated water using magnetic nanoparticle-based adsorbents for selective adsorption of toxic metals	Published	16-05-2023

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