



LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING (Autonomous)

L.B.Reddy Nagar, Mylavaram – 521 230, Andhra Pradesh, INDIA.

Affiliated to JNTUK, Kakinada & Approved by AICTE, New Delhi.

Accredited by NAAC, NBA Tier-1 for CSE, IT, ECE, EEE & ME and “CPE” status by UGC.

Research & Development Cell

Details of Patents Published / Granted for the Academic Year 2020-21

ASE: 00, CE: 00, CSE: 11, ECE: 07, EEE: 12, EIE:00, ME: 10, IT: 01, FED: 01, MBA: 00 Total: 42

S.No.	Patent Title	Applicants/ Inventors	Patent No.	Published date
1.	A Table with Adjustable Chairs	Dr. Murahari Kolli (ME) K.V.Viswanadh Sankararao Vinjavarapu	345219-001	23-06-2021
2.	Navigation technique for industrial cleaning robots with multi height and width adaptability	Siva Sankara Babu Chinka (ME)	2021102660	23-06-2021
3.	Apparatus For Sanitizing Articles with Rotatable Inner Chamber to Evenly Distribute UV Radiation	Dr. Vayu Nandana Kishore Pabbiseti (FED)	202141022452	11-06-2021
4.	Patch Antenna, Method of Manufacturing And using such An Antenna, And Antenna System	Dr. G. Nageswara Rao (EEE)	202111022123 A	28-05-2021
5.	A method of text mining in ranking of web pages using machine learning	Dr. M. M. Sitha Ram (CSE)	2021100441	19-05-2021
6.	Image Contrast Enhancement System with Hybrid Binary Particle Swarm Optimization and Flower Pollination Algorithm	Mr. M. Samba Siva Reddy (ECE), Mr. P. Venkateswara Rao, Mr. Ch. Siva Rama Krishna,	202131018752 A	14-05-2021
7.	A Sensor Fusion Precision Technology in Agricultural and its method and Controlling Parameters	Dr. K. Dilip Kumar Sudheer Kumar Battula (ME)	202121021172	10-05-2021
8.	Method of Synthesizing Hybrid Metal Wood Composite And 3D Printing Thereof	V.Venkatrami Reddy (ME) K.Lakshmi Prasad S.Uma Maheswara Reddy K.V.Viswanadh A.Naresh Kumar	202141019607 A	07-05-2021



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9.	A Decentralized privacy preserving Multi Instance Iris Authentication Device (Dpmiad)	J. Nageswara Rao(CSE)	202141019089	07-05-2021
10.	A Novel System for Interfacing the artificial Intelligence with Distributed Smart Grids	Dr. G. Nageswara Rao (EEE)	202111020987	09-05-2021
11.	An Agricultural Smart Robot Device	Dr. K. Dilip Kumar (ME)	2021101399	28-04-2021
12.	Interactive Electronic Smart Fabrics and a device for Remotely Monitoring the Vital Parameters	Dr. Godavarthi Lakshmi Narasimha Murthy(ECE),	202141017212	23-04-2021
13.	An AI Abetted Green Energy Generating Systems	Mr. G. Balu Narasimha Rao (CSE)	202141012214 A	20-04-2021
14.	An Enhanced Artificial Bee Colony for Improved Stability in Synchronous Generator	Rathnakar Kumar Pandala (EEE)	202141016020	16-04-2021
15.	Prevention of food harmfulness from production to customer for centralized kitchen facility using IoT	P.Ravindra kumar(ME)	2020103242	03-04-2021
16.	Three Axis Micro Electro Mechanical Systems with H and T Shaped Capacitive Comb Accelerometer	Dr. Satyanarayana Talam (ECE), Dr. B. Poornaiah Billa (ECE)	202141012662	02-04-2021
17.	Artificial Neural Network Based Driver Behavior Recognition for Automated Driving or Autonomous Vehicles	Dr. A V G A Marthanda (EEE)	202141009561 A	12-03-2021
18.	Generation of E-Bill transaction Number using Bloch Chain Technology	Dr. A V G A Marthanda (EEE)	202141007828 A	05-03-2021
19.	Economic Aspect Designing of Prototype Laboratory Multi Phase Induction Machine and Validation of Performance Analysis	Dr. K. Harinadha Reddy (EEE)	202041045361	05-03-2021



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20.	A Novel Method of Big Data Retrieval System using Machine Learning	Veeraiah Duggineni (CSE)	2021100011	03-03-2021
21.	A Novel Method of Power Reduction in Modified AES Using Bit Encryption and Decryption Transition Scheme on FPGA	Mr. Shaik Johny Basha (CSE)	202141006425 A	19-02-2021
22.	Vehicle Window to Control Usage of Air Conditioner	M. Raja Nayak, Syed Abdul Mujeer (EEE)	202141004809 A	12-02-2021
23.	Intel light Proportional Integral Sliding mode based Direct Control of Double Field Induction Generator wind turbine	Dr.A V G A Marthanda (EEE)	202141004236 A	05-02-2021
24.	A Novel Global Secure Management System with Smart Card for IoT and Cloud Computing	Ms. B. Usha Rani (CSE)	202141000635	05-02-2021
25.	A Machine Learning Technique to Support Decisions along with Self Study	Dr. G. Nageswara Rao (EEE)	202141002009	22-01-2021
26.	PVAC- Improvement Techniques of Free Space Optical Link: Performance Analysis and improvement techniques of free space optical link in various Atmospheric conditions	A. Narendra Babu (ECE)	2020103328 (Australia)	23-12-2020
27.	IANM-Data Analysis: Intelligent Data Analysis (Academic, Non-Academic) using Machine Learning Programming	G.V. Suresh (CSE)	2020102877	02-12-2020
28.	Expert System for Detecting Drowsiness in Drivers	Phaneendra Kanakamedala (IT)	202041050058	27-11-2020
29.	Smart IoT Based System for Home Automation System	Mr. Parri Srihari (EEE)	202041049557	20-11-2020
30.	Ship Detection System from the SAR Images by Saliency Segmentation	Dr. O. Rama Devi (CSE)	202041048454	13-11-2020



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Research & Development Cell

31.	Peak to Average Power Ratio Reduction Method for MIMO-OFDM System	Manneva Srinivasa Rao, Arepula Sreenivasa Rao, Dr. Vamsidhar Anagani, H.D. Praveena, M.K. Lingamurthy (ECE)	202041049074	13-11-2020
32.	Aerial Manipulative Omni Directional Drones for Building Construction	Dr. V. Dhana Raju (ME)	2020102606	11-11-2020
33.	Enhanced Fingerprint Authentication System by Gabor Filter And Classification Dictionaries Learning	Dr. M. Srinivasa Rao (CSE)	202041047364	06-11-2020
34.	Conversion of Sliding Mode Controller to Grid Connected PV System for Boosting the Power for Inverter	Dr. K.Ramalingeswara Prasad (EEE) Dr. G. Nageswara Rao Dr.J Siva vara Prasad	202041048086	04-11-2020
35.	Conversion Based Fault Identifier in Three Phase Transformer using Wavelet Transform Technique	Dr. K.Ramalingeswara Prasad (EEE)	202041047385	30-10-2020
36.	Support Value Based Convolutional Neural Networks System for Internet of Things	Mr. Shaik Johny Basha (CSE)	202041043751	16-10-2020
37.	Method for Minimizing the Specific Absorption Values of the Multi-Homed Heterogeneous Wireless Devices	Dr. A. Narendra Babu (ECE)	2020102248	14-10-2020
38.	A Food Disposal Device	Dr. A. Narendra Babu (ECE)	202041036255	11-09-2020
39.	Human Sentiment Analysis: Neural Network-Based Human Sentiment Analysis Using Deep Learning Programming	Dr. D. Veeraiah (CSE)	202041035805	11-09-2020
40.	Surface Engineered Corrosion Free and Antibacterial Bio-Implants	J.Subba Reddy (ME)	202041040589 A	25-09-2020



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41.	Multi Stage Sheet Bulk Metal Deformation Process Using Digital Image System	J.Subba Reddy (ME)	202041038431 A	11-09- 2020
42.	Low Energy Communicator Between External Programmer and Implantable Medical Devices Using BLE Technology	J.Subba Reddy (ME)	2020101619	26-08-2020