



MALLA REDDY ENGINEERING COLLEGE (AUTONOMOUS)

(An UGC Autonomous Institution, Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad).

Accredited 2nd time by NAAC with 'A' Grade,

Maisammaguda (H), Medchal-Malkajgiri District, Secunderabad,

Telangana State – 500100, www.mrec.ac.in

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Faculty Achievements for the Academic Year 2020 – 2021

AWARDS:

Sl. No.	Year of Award	Name of the Faculty	Name of the Award	Award Issued by
1	2020-2021	Dr.N.Rajeswaran	Best Editorial Board of Members	International Journal & Magazine of Engineering, Technology, Management and Research (IJMETMR)
2	2020-2021	Mr. Chinta Narendra Kumar	Best Reviewer Award	Yuva Engineers (Transforming Young Engineers for Better Tomorrow)

SCI Journals Published:

Sl. No.	Name of The Faculty	Title of The Paper	Name of The Journal	Details of Paper	Impact Factor
1	Dr. T. Rajesh, Ch.Narendra Kumar	Design and implementation of an automatic solar tracking system for a mono crystalline silicon material panel using MPPT algorithm	Materials Today: Proceedings (SCI)	Volume 45, Part 2, 2021, Pages 1783-1789, ISSN: 1369-7021	1.24
2	Dr. T. Rajesh	Frequency control of PV-connected Micro grid System Using Fuzzy Logic Controller	Materials Today: Proceedings (SCI)	Volume 45, Part 2, 2021, Pages 2260-2264 ISSN: 1369-7021	1.24

Details of Books Published:

Sl. No.	Name of the Book/chapter	Author Name	Details of Publication	Year	ISBN No.
1	Co-Editor: Emerging Trends in Engineering And Technology (Volume-1)	Dr. A.V. Sudhakara Reddy	Integrated Publications, New Delhi	2021	978-93-90471-48-5
2	Co-Editor: Advances in Electrical Engineering (Volume - 4)	Dr. A.V. Sudhakara Reddy	AkiNik Publishers	2021	978-93-90846-55-9
3	Hybrid UPQC For Power	Ch Rami Reddy	Lambert Academic	2021	978-620-3-

	Quality Improvement Of Integrated Renewables		Publishers, Europe		86998-9
4	Replacement of Grid Interface Transformer with Solid State Transformer	Ch Rami Reddy	Lambert Academic Publishers, Europe	2021	978-620-3-86990-3
5	Advanced Techniques for voltage profile Improvement in Power Grid	Ch Rami Reddy	Lambert Academic Publishers, Europe	2021	978-620-3-87037-4
6	DFIG Fed Wind energy system with Integrated Active filter	Ch Rami Reddy	Lambert Academic Publishers, Europe	2021	978-620-3-92543-2
7	Power Quality Improvement with D-SATCOM under Non Linear Load	Ch Rami Reddy	Lambert Academic Publishers, Europe	2021	978-620-3-93077-1
8	Microprocessor and Microcontrollers	Dr. N. Rajeswaran Dr. A. Ramaswami Reddy	AkiNik Publishers	2020	978-93-90420-90-2

Details of Book Chapters Published:

Sl. No.	Name of the Book/chapter	Author Name	Details of Publication	Year
1	Ch 5: Constant Load And Constant Power Operation Based Standalone Photovoltaic System	Raja Reddy Duvvuru,	Advances in electrical Engineering, Vol-4, Akinik Publications, 978-93-90846-55-9	2021
2	Ch.6: A Novel Approach of Image De-noising Using Implementation of the DWT and HWT Techniques	Raja Reddy Duvvuru,	Emerging Trends in Engineering and Technology (Volume 1), Integrated Publications, 978-93-90471-62-1	2021
3	Ch.7: Investigation on Photovoltaic Array Reconfiguration Methods for Constant Power and Constant Load operation	Raja Reddy Duvvuru,	Research Trends in Multi disciplinary research, Vol-24, 978-93-90541-93-5	2021
4	Ch.8: Botnet Detection Using Machine Learning	Raja Reddy Duvvuru,	Emerging Trends in Applied Research, Vol-1, Integrated Publications, 978-93-90471-62-1	2021
5	Ch.8: Hybrid Solar-Wind Generation Based Renewable Energy Resources	M. Kondalu	Research Trends in Multidisciplinary Research Volume – 26,	2021

			978-93-5335-037-6	
6	Ch.2:ANFIS and SCLEIC Based Battery Charging Controllers for PHEV	Ch Narendra Kumar	Advances in electrical engineering, Vol-4, Akinik Publications, 978-93-90846-55-9	2021
7	Ch-5: An Automatic Smart Energy Meter Reading System for Consumer Appliances	Ch. Narendrakumar	Emerging Trends in Engineering And Technology (Volume - 1), Integrated Publications, 978-93-90471-48-5	2021
8	Ch-6: Wide Area Measurement System using Synchrophasor Data for Assessment of Power System Scenario	Dr. A.V. Sudhakara Reddy	Advances in Electrical Engineering (Volume - 4), 978-93-90846-55-9	2021
9	Ch-3: Modern Trends in HVDC Transmission Systems	Dr. A.V. Sudhakara Reddy	Research Trends in MULTIDISCIPLINARY RESEARCH (Volume - 26), 978-93-5335-037-6	2021
10	Ch-5: Electric Vehicles and Charging Stations	Dr. A.V. Sudhakara Reddy	Research Trends in MULTIDISCIPLINARY RESEARCH (Volume - 25), 978-93-90846-62-7	2021
11	Ch-6: Basics of Flexible A.C Transmission Systems	Dr. A.V. Sudhakara Reddy	ADVANCES IN RENEWABLE ENERGY ENGINEERING (Volume - 4), 978-93-90846-64-1	2021
12	Ch-9: Economic Operation in Thermal Power Plants	Dr. A.V. Sudhakara Reddy	Research Trends in MULTIDISCIPLINARY RESEARCH (Volume - 28), 978-93-91216-52-8	2021
13	Emerging Trends in Engineering and Technology Ch-04: Overview of Machine learning and its Engineering Applications	P. Kamalakar, S. Bharathi,	Integrated Publications, New Delhi – 110085, India. 978-93-90471-48-5	2021

International Patent Published:

Sl. No.	Topic	Author Name	CBR Number / Patent Application Number	CBR/ Publication Date
1	An Automatic Tumour Detection System Based on	Dr. A. V. Sudhakara Reddy	2021103132	05.06.2021

	Local Linear Wavelet Artificial Neural Network With Hybrid Optimization			
2	Thermal Effect Powered Electric Motor to Minimize the Power Consumption in the Electric Vehicle	Dr. P.Sarala	2021100914	18.04.2021
3	An Efficient and Automated Smart Heating Bucket	Dr. A.V. Sudhakara Reddy	2020103897	04.12.2020
4	An Efficient System and Methodology to Monitor The Diagnostic Laboratory Reports On Cloud	1) Rajeswaran N 2) A Ramaswami Reddy 3) Narendra kumar Chinta 4) Raja Reddy 5) A V Sudhakar Reddy 6) Kamalakar	2020101378	05.08.2020

National Patent Published:

Sl. No.	Topic	Author Name	CBR Number / Patent Application Number	CBR/ Publication Date
1	Islanding Detection For Inverter Based Distributed Generation With Low Frequency Current Harmonic Injection Through Q Controller ANDROCOF Analysis	Ch. Rami Reddy	202141027908 A	09.07.2021
2	A System Based on Machine Learning And Artificial Intelligence Modules For Providing IoT Network Configuration Through User Voice And Gesture And Method	Dr. A. V. Sudhakara Reddy	202141023485 A	11.06.2021
3	Smart Solar-Based Pet House	Mr. Chinta Narendra Kumar	343867-001	26.05.2021
4	Rechargeable Wireless Sensor Networks with Multiple Sinks	Mr. D. Chandra Sekhar	202141015900 A	05.04.2021
5	Bio-Metric Mouse	Dr. Raja Reddy Duvvuru	342725-001	25.04.2021
6	Alcohol Detection with Messaging System and Vehicle Control	Mrs. V. Suma Deepthi	202141031252	16.07.2021
7	Smartmon: Monitoring The Status Of Smart Devices via Network Traffic	Dr. A. V. Sudhakara Reddy	202121023839 A	02.07.2021
8	A Novel Automatic Sleep Staging Features Analysis System using Machine Learning	Dr. A. V. Sudhakara Reddy	202141026196 A	25.06.2021
9	A Wearable Article with Sensors	Dr. A. V. Sudhakara	202141024071 A	18.06.2021

	And ML & AI Modules for Analysing Behaviour of User	Reddy		
10	Compact Washing Machine	Dr. Raja Reddy Duvvuru	339783-001	26.02.2021
11	Compact Data Transfer Device	Dr. A. V. Sudhakara Reddy	339857-001	27.02.2021
12	Compact and Digitalized Water Tap	Dr. A. V. Sudhakara Reddy	339842-001	26.02.2021
13	A Foldable TV Remote	Dr.T.Rajesh	339043-001	13.02.2021
14	Safe Driving and Accident Prevention using Wireless Transmitter Traffic Control	Mr. Ch. Narendra Kumar Mr. KSS Naga Teja	202041030719A	31.07.2020
15	Smart Parking and Vehicles Name Plate Detection	Dr. D. Raja Reddy	202041029576A	31.07.2020

NPTEL / NITTTR:

S. No	Name of the Faculty	Designation	Year	Course Name	Course Duration	Type of Certification
1	Mr. Ch. Narendra Kumar	Assoc. Prof	30.09.2020	NITTTR-Accreditation for Undergraduate Engineering Programmes	15 Weeks	Course Completed
2	Mr. Ch. Narendra Kumar	Assoc. Prof	16.02.2020	NITTTR - Big Data Analytics For Smart Grid	15 weeks	Course Completed
3	Mr. Ch. Narendra Kumar	Assoc. Prof	2020 (Jan-Apr)	NPTEL – Elite - Microprocessors and Interfacing	12weeks	Elite Certified
4	Dr. P. Marimuthu	Professor	30 th June - 30 th July	Innovation Ambassador (Foundation Level), MoE's Innovation Cell & AICTE	30 Days	Course Completed


Coordinator


Head of the Department
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