

# Dr.M. Ramasekhara Reddy

Assistant Professor in EEE  
JNTUA College of Engineering  
Ananthapuramu-515 002(A.P)

## CURRICULUM VITAE



Contact:

9948934660(P)  
[ramasekharreddy.eee@jntua.ac.in](mailto:ramasekharreddy.eee@jntua.ac.in),  
[ramasekharreddy@rediffmail.com](mailto:ramasekharreddy@rediffmail.com)

Name: **M. RAMASEKHARAREDDY**

Date of Birth: **15-07-1977**

Designation: **Assistant Professor in Electrical Engineering**

Official Address: **JNTUA College of Engineering**  
**Ananthapuramu – 515 002 (A.P)**

Residential Address: **D.No. 13-1-611,**  
**M.G.Colony,**  
**Near Revenue Colony,**  
**Ananthapuramu – 515 002 (A.P)**

Phone: **09948934660 (Mobile)**

**08554 - 273013 (O)**

Fax: **08554 – 272098**

E mail: **ramasekharreddy.eee@jntua.ac.in**

**a) Qualification:**

S.No	Course	Specialization	Year of Passing	Institution	Class
1	X Class		1992	V.K.H.School, Anantapur  AP Board of Secondary Education	First  69.5%
2	Intermediate	Maths, Physics, Chemistry	1994	Govt. Junior College (Boys), Anantapur  AP Intermediate Board	First  52.7%
3	B.E.	Electrical & Electronics Engg	1999	M. S. Bidve Engineering College, Latur (M.H.)  (SRTMUniversity, Nanded (M.H.))	First class with Distinction  70.4%
4	M.Tech	Electrical Power Systems	2007	JNTUA College of Engineering, Anantapur  (JNTUniversity, Hyderabad)	First class with Distinction 75.64%
5	Ph.D.	Electrical Engineering	2020	JNTUniversityAnantapur, Ananthapuramu	-

**b) Experience:**

**i) Teaching Experience:**

S.No	Designation	Institution	Experience	
			From	To
1	Assistant Professor(A.G.P. 8000/-)	JNTUA	03-02-2021	Till date
2	Assistant Professor(A.G.P. 7000/-)	JNTUA	03-02-2016	02-02-2021
3	Assistant Professor(A.G.P. 6000/-)	JNTUA	03-02-2011	02-02-2016
4	Lecturer(Adhoc)	JNTU College of Engg, Anantapur	17-06-2002	02-02-2011

**ii) Administrative Experience:**

S.No	Designation	Institution	Experience	
			From	To
1	Officer in charge of Academic Section	JNTUA College of Engg, Pulivendula	April 2011	June 2011
2	Deputy Warden	JNTUA College of Engg, Pulivendula	September 2012	November 2012
3	Public Relation Officer	JNTUA, Anantapur	November 2012	August 2015
4	Deputy Warden	JNTUA College of Enegineering, Anantapur	February 2016	July 2016

5	Head of the Department & Officer In-charge of Hostels	JNTUA College of Engineering, Kalikiri	July 2016	July 2017
6	N.S.S. Program officer	JNTUA College of Engineering, Anantapur	August 2017	June 2019
7	IQAC Co-coordinator, EEE Department	JNTUA College of Engineering, Anantapur	November 2018	June 2019
8	Additional Controller of Examinations	JNTUA	June 2019	July 2023
9	Public Relation Officer	JNTUA, Anantapur	February 2022	August 2024
10	Head of EEE	JNTUA College of Engineering, Anantapur	July 2023	Till date

iii) ***Experience in Associations/ organizations:***

- Served as Vice-President, Teachers Association, JNTUACE, Pulivendula for short period.
- Executive Council Member, Teachers Association, JNTUACEA, Till date

iv) ***Governing Body Memberships:***

- Governing Body Member, Sri Lakshmi Venkateswara Institute of Pharmaceutical Sciences, Proddatur
- Governing Body Member, Dr.K.V. Subba Reddy Pharmacy College, Kurnool
- Chairman, Board of Governors, Government Polytechnic, Narpala, Anantapur

v) ***Membership in Professional Bodies:***

Life Member of International Association of Engineers	Membership No: 158257
Associate Member of Universal Association of Computer & Electronics Engineers	Membership No:AM1004545
The Institution of Research Engineers and Doctors(IRED) as Associate Member	No:AM10100055588

**vi) Participation in Conferences/ Refresher Courses/ Workshops/ Summer/ Winter Schools/ Symposiums/ Seminars, etc. :**

S.No	Name of the Course	Duration	Dates	Place
1	A 3-Day National workshop on “ Distribution & Automation Recent Trends (DART-2005)	3- Days	28-10-2005 to 30-10-2005	Department of EEE, JNTU College of Engineering, Anantapur
2	A 2-Day workshop on “ Intelligent Techniques and Their Applications in Engineering	2-Days	14-02-2007 to 15-02-2007	Department of EEE, JNTU College of Engineering, Anantapur
3	A Two Week Training Program on Development of Embedded Systems Laboratory”	2 Weeks	19-02-2007 to 02-03-2007	Department of EEE, JNTU College of Engineering, Anantapur
4	A Two Day Training Programme on PSIM & SKIM Power Tools Software packages	2- Days	31-08-2007 to 01-09-2007	Department of EEE, JNTU College of Engineering, Anantapur
5	UGC Sponsored Refresher Course on “ Linear and Discrete Systems Analysis”	21-Days	10-12-2007 to 29-12-2007	UGC- Academic Staff College, JNTU, Hyderabad
6	A Two Day Faculty Development Program on “ Embedded Systems and Technology”	2-Days	29-12-2008 to 30-12-2008	Department of ECE, JNTUA College of Engineering, Anantapur
7	MHRD/ AICTE Sponsored Winter School on “ Applications of Power Electronics to Non-Conventional Power Generation Systems”	1 Week	03-03-2009 to 07-03-2009	Department of EEE, NITK, Surathkal
8	A Workshop on “ SCADA in Modern Power System Control”	3- Days	13-03-2009 to 15-03-2009	Department of Electrical Engineering, NIT, Warangal
9	Two- Day National Workshop on Neural Networks and Fuzzy Systems” (NN & FS)	2-Days	30-03-2009 to 31-03-2009	Department of EEE 7 Department of mathematics, JNTU College of Engineering, Anantapur
10	Two – Day Workshop on “ Combating Climate Change”	2- Days	18-03-2010 to 19-03-2010	Department of Chemical Engineering & Andhra pradesh Pollution Control Board, JNTUA College of Engineering, Anantapur
11	CSIR Sponsored Seminar on “ Research Issues on FACTS Controllers with Soft Computing	2- Days	26-03-2010 to 27-03-2010	School of Electrical Sciences, Kongu Engineering College,

	Techniques			Perundurai, Erode (T.N.)
12	Two – Day National Level Workshop on “ Thrust Areas in Power Systems”	2- Days	18-11-2011 to 19-11-2011	Department of EEE, JNTUA College of Engineering, Pulivendula
13	AICTE Sponsored Two Week Staff Development Programme on “ High Voltage Testing Measurements & Gas Insulated Substations”	2 weeks	12-12-2011 to 24-12-2011	Department of EEE, JNTUH College of Engg., Hyderabad
14	One Day Workshop on “ Smart Grid”	1- Day	06-01-2012	Department of EEE, JNTUA College of Engineering, Anantapur
15	DRDO Sponsored National Workshop on “ Power Quality Issues and Improvement”	2 –Days	28-09-2012 to 29-09-2012	Department of EEE, PSG College of Technology, Coimbatore (T.N.)
16	AICTE Sponsored Two Week Faculty Development Program on “ Computational Methods for Flow and Heat Transfer Analysis – Application of CFD Tools	2- weeks	10-03-2014 to 23-03-2014	Department of Mechanical Engineering, JNTUA College of Engineering, Anantapur
17	AICTE Sponsored National Seminar on “ Industrial Practices of Computational Fluid Dynamics”	3- Days	21-08-2014 to 23-08-2014	Department of Mechanical Engineering, JNTUA College of Engineering, Anantapur
18	Training Program on RTI ACT2005	2- Days	08-10-2014 to 09-10-2014	District Training Centre, Anantapur
19	One Day Workshop on “ Awareness on Power Systems Simulation Analysis using Mi Power Software”	1- Day	22-09-2015	Department of EEE, JNTUA College of Engineering, Anantapur
20	Govt. of India Sponsored Faculty Development Program on “ Embedded Real Time Systems”	2-Weeks	1-02-2017 to 10-02-2017	Electronics & ICT Academy ,NIT, Warangal, and Department of ECE, JNTUA College of Engineering, Anantapur
21	A Two-Day Faculty Development Programme on “Data Science”	2-Days	03-03-2018 to 04-03-2018	Department of CSE, JNTUA College of Engineering, Anantapur
22	Two –Day Workshop on “ Prospective Energy Sources – Wind and Solar PV Systems”	2-Days	23-03-2018 to 24-03-2018	Department of EEE, JNTUA College of Engineering, Anantapur

23	Two Day Workshop on “ Big Data Applications in Power Systems”	2- Days	28-09-2018 to 29-09-2018	Department of EEE, JNTUA College of Engineering, Anantapur
24	Two Week Faculty Development Programme on “ Solar and Wind Energy – Future Technologies”	2-Weeks	12-11-2018 to 24-11-2018	Department of Mechanical Engineering, JNTUA College of Engineering, Anantapur
25	One Week Faculty Development Programme on “ Soft Skills and Personality Development”	1-Week	10-12-2018 to 14-12-2018	Department of Humanities, JNTUA College of Engineering, Anantapur
26	One Week Faculty Development Programme on “Leadership Skills”	1-Week	19-08-2019 to 24-08-2019	Department of Humanities, JNTUA College of Engineering, Anantapur
27	One Week Faculty Development Programme on “Innovative Teaching – Learning Techniques in Higher Education”	1-Week	04-09-2019to 09-09-2019	Department of Mechanical Engineering, JNTUA College of Engineering, Anantapur
28	One Week Faculty Development Programme on “Research Methodology and Data Analysis”	1-Week	23-09-2019 to 28-09-2019	Department of Humanities, JNTUA College of Engineering, Anantapur
29	One Week Faculty Development Programme on “Power Converters Design”	1-Week	25-09-2019 to 29-09-2019	Department of EEE, JNTUA College of Engineering, Anantapur
30	5 day Faculty Development Program on “Awareness on Electric/ Hybrid Vehicle Engineering”	5 days	21-01-2020 to 25-09-2020	Department of EEE, JNTUA College of Engineering, Anantapur
31	5 day Faculty Development Program on “ Technological Advances in Power Switching Converters for Renewable Energy Sources and Fuel Cell Technology for E-Vehicles”	5 Days	01-06-2020 to 05-06-2020	Bapatla Engineering College, Bapatla
32	5 day Faculty Development Program on “Recent Innovations and Technologies in Electric Vehicles”	5 Days	08-06-2020 to 12-06-2020	Department of EEE, Gates Institute of Technology, Gooty
33	5 day Faculty Development Program on “IoT and Smart Device Applications in Green Technology and Electric Vehicles”	5 Days	24-08-2020 to 28-08-2020	Department of Electrical and Electronics Engineering, Bapatla Engineering College,

				Bapatla(A.P.)
34	5 day Faculty Development Program on "E- Content Development"	5 Days	08-09-2020 to 12-09-2020	IIITDM Kurnool and IIIT, Tirucharapalli
35	4 day Faculty Development Program on "Challenges and Opportunities of Energy and Sensor Applications"	4 Days	23-09-2020 to 26-09-2020	Department of EEE, JNTUA College of Engineering, Anantapur (A.P.)
36	UGC Sponsored online "Faculty Induction Programme"	30 Days	01-01-2021 to 30-01-2021	UGC-HRDC , Maulana Azad Urdu National University, Hyderabad(T.S.)
37	5 day Faculty Development Program on "Artificial Intelligence"	5 Days	24-08-2021 to 28-08-2021	Department Computer Science & Engineering, JNTUA College of Engineering, Anantapur (A.P.)
38	5 day online Faculty Development Program on "Recent Advances in Electrical Engineering"	5 Days	21-03-2022 to 25-03-2022	Department of EEE, Gates Institute of Technology, Gooty (A.P.)
39	UGC Sponsored online multidisciplinary "Refresher Course in Multiculturalism"	14 days	24-02-2022 to 09-03-2022	UGC-HRDC , Maulana Azad Urdu National University, Hyderabad(T.S.)
40	One Week Online Faculty Development Program " Machine Learning in Big Data Analytics , Principles, Techniques and Challenges"	One Week	13-02-2023 to 18-02-2023	Department of CSE, Narasimha Reddy Engineering College, Hyderabad (T.S.)
41	5 day online National Level Faculty Development Program on "Recent Advancements in Sustainable Energy Storage & Conversion"	5 Days	23-01-2023 to 27-01-2023	Department of Mechanical Engineering, G.Pulla Reddy Engineering College, Kurnool
42	One Week Online Faculty Development Programme on " Machine Learning in Big Data Analytics"	One Week	13-02-2023 to 18-02-2023	Narasimha Reddy Engineering College, Secunderabad, Telangana
43	Two days Faculty Development Program on " Revising The Educational Practices"	2 Days	04-03-2023 and 05-03-2023	Sanskruithi Group of Institutions, Puttaparthi(A.P.)
44	5-Day Faculty Development Program on "Electrical CAD Design"	5 Days	26-06-2023 to 01-07-2023	Department of EEE, Bapatla Engineering College, Bapatla (A.P.)
45	3-day Faculty Development Program on " Patent Search Training"	3 Days	25-08-2023 to 27-08-2023	IPR Facilitation Centre, JNTUA,



				Ananthapuramu
46	National One Week Faculty Development Programme on “ Next-Gen Smart Grid Technologies with Power Electronics Innovations”	One Week	15-07-2024 to 20-07-2024	Mallareddy Engineering College for Women
47	5 Days National Level Faculty development Program on “ EVE Technology:Battery Modelling, Senors, BMS, Motors and E-Bus Charging”	5 - Days	12-08-2024 to 17-08-2024	Vidya Vikas Institute of Engineering & Technology, Mysuru, Karnataka

**Vii) List Of Papers Published:**

National Conferences	Inter-national Conferences	National Journals	Inter-national Journals	Total
<b>01</b>	<b>13</b>	<b>--</b>	<b>41</b>	<b>55</b>

S.No	Title of Paper & Authors	Name, Volume, number  and Year of publication.	Page No.	
			From	To
NATIONAL CONFERENCES				
1	Impact of Reactive Power due to 3-phase to Ground fault on Wind Farm” in Conference National on Intelligent Power Electronics and Technology(IPET-12)  M.Ramasekharreddy, Dr.M.VijayaKumar, K.Sudhakarreddy	Department of EEE, R.M.D. Engineering college,Kavaraipettai(T.N),  2 <sup>nd</sup> March 2012	41	46
INTERNATIONAL CONFERENCES				

1	"CONSTANT POWER CONTROL OF 15 DFIG WIND TURBINES WITH ENERGY STORAGE" PHANEENDRA.V, RAMA SEKHARA REDDY.M, VIJAYA KUMAR.M	2 <sup>nd</sup> International Conference on Advances in Engineering and Technology(ICAET-2012) on 28 <sup>th</sup> &29 <sup>th</sup> March 2012, E.G.S.Pillay Engineering College, Nagapattinam(T.N.) in collaboration with Aichi Institute of Technology, Toyota, Japan		
2	"performance Analysis of Wind Turbine Driven DFIG using Stator Field Oriented Control" A.V.Sudhakar Reddy, M.Ramasekhara Reddy	International Conference on Advancements in Engineering and Technology on 12 <sup>th</sup> & 13 <sup>th</sup> October, 2012, Bhai Gurdas Institute of Engineering & Technology, Sangrur, Punjab, India	451	457
3	approach to evaluate the reliability of radial distribution systems", M.Ramasekhara Reddy P.Bhaskar	1 <sup>st</sup> International Conference on green power technology in power grid: issues, challenges and control on 16 <sup>th</sup> -18 <sup>th</sup> November, 2016, SVUCE, Tirupathi	164	168
4	"Comparative Analysis Between Conventional PID and Fuzzy Logic Controller for UPQC in DFIG Based WECS Integrated to Grid" M.Ramasekharreddy, Dr.M.VijayaKumar	International Conference on Recent Innovations in Electrical, Electronics & Communication Engineering-(ICRIEECE)-2018, July 27 <sup>th</sup> &28 <sup>th</sup> , 2018 at KIIT, Bhubaneswar, Odisha.	40	40
5	Enhancement of Power Quality using MLI Through Active Fault – Tolerant Control System	International Conference on "Advanced Mechanical Engineering 2020-2021" 7 <sup>th</sup> &8 <sup>th</sup> February, 2021, KL University, Guntur(A.P.)	261	261
6	Comparative Study of Controllers in STATCOM using meta heuristic algorithms for microgrid: A methodical literature review	International Conference on "Emerging research in Science, Engineering & Management", 19 <sup>th</sup> & 20 <sup>th</sup> May 2023, Sai Rajeswari Institute of Technology, Proddatur, YSR Dist, A.P.	50	50
7	Optimal Planning of Electric Vehicle Charging Station in Radial Distribution Network along with Reconfiguration	3 <sup>rd</sup> International Conference on Power Energy, Environment and Intelligent Control(IPEEIC-2023), 19 <sup>th</sup> -23 <sup>rd</sup> December, 2023, Department of EEE, GL Bajaj Institute of Technology & Management, Greater Noida(U.P.)	1039	1044

8	Optimal Placement of Electric Vehicle Charging Station by Considering Dynamic Loads in Radial Distribution System	International Conference on Automation, Computing and Renewable Systems(ICACRS-2022), 13 <sup>th</sup> -15 <sup>th</sup> December 2022, Department of ECE, Mount Zion College of Engineering and Technology, Pudukkottai , T.N.	212	217
9	Novel Control of Wind-PV-Battery based Standalone Supply System with LSTM Controllers	1 <sup>st</sup> International Conference on Power and Energy Systems (ICPES2023) , Madurai  E3S Web of Conferences, Volume 540, id 1010 Published on June2024	1	12
10	Fault Mitigation in Seve- Level Diode Clamped with Static Switch Based Fourth Leg Inverter Topology for Induction Motor Drives	1 <sup>st</sup> International Conference on Power and Energy Systems (ICPES2023) , Madurai  E3S Web of Conferences, Volume 540, id 02013 Published on June2024	1	8
11	Storage Solutions for Sustainable Futures: Integrating Batteries, Super Capacitors and Thermal Storage.	2 <sup>nd</sup> International Conference on Sustainable Green Energy Technologies , 14 <sup>th</sup> & 15 <sup>th</sup> June, 2024, Department of EEE, Vardhaman Engineering College, Hyderabad. E3S Web of Conferences547,03016 (2024)	1	9
12	Machine Learning Models for Predicting and Managing Electric Vehicle Load in Smart Grids02009	International Conference on Power Generation and Renewable Energy Sources(ICPGRES-2024) E3S Web of Conferences564,02009 (2024)	1	6
13	Fast Charging Electrical Vehicle using PSCAD02014	International Conference on Power Generation and Renewable Energy Sources(ICPGRES-2024) E3S Web of Conferences564,02014 (2024)	1	10
INTERNATIONAL JOURNALS				
1	“Modeling and Control of a Permanent Magnet Synchronous Generator Wind Turbine with Energy Storage” K. Uday Kumar Reddy, M. Ramasekhara Reddy , Dr. M. Vijaya Kumar	International Journal of Engineering Research and Applications (IJERA) ISSN: 2248-9622, Vol. 2, Issue 5, September-October 2012.	1900	1905
2	“Power Quality Improvement in Grid Connected Wind Energy System using FACTS Device and PID Controller”D.Srinivas, M.Ramasekharareddy	International Organization of Scientific Research (IOSR) Journal of Engineering, Vol.2, Issue 11, November 2012	19	26

3	" Power Quality Improvement in DFIG based Wind Energy Conversion System using UPFC" M.RamasekharaReddy, Dr.M.VijayaKumar	International Organization of Scientific Research, Vol3, Issue1, Jan2013	46	54
4	"Comparison of PID and Fuzzy controlled Dual Inverter based Super Capacitor for Wind Energy Conversion Systems" M. Ramasekhara Reddy, M. Vijaya Kumar, and R.Vinu Priya	International Research Journal of Engineering and Technology, Vol. 2, Issue 4, July 2015	1284	1289
5	"A Neuro-Fuzzy controller based Wind Generation System using Flying Supercapacitors" M. Ramasekhara Reddy, M. Vijaya Kumar, and N. Swathi	International Journal of AREEIE., Vol. 4, Issue 7, July 2015	6710	6717
6	"Control Scheme for Grid Connected WECS Using SEIG" M. Ramasekhara Reddy, M. Vijaya Kumar, and B. Anjinamma.	in International Journal of SETR., Vol. 4, Issue 8, Aug. 2015	2747	2753
7	"A Fuzzy logic based grid connected offshore wind farm using STATCOM", M.Ramasekhara Reddy P.Lokesh	International Journal of Advanced Research in Electrical Electronics and Instrumentation Engineering, Vol.4, Issue9, September 2015	7847	7856
8	"Dynamic stability improvement of grid connected PMSG based offshore wind farm using a STATCOM"M.Rama Sekhara Reddy P.Niranjan	International Journal of Advanced Research in Electrical Electronics and Instrumentation Engineering, Vol.4, Issue9, September 2015	7878	7886
9	"Simulation of Grid connected Induction Generators for Power Quality Improvement" M. Ramasekhara Reddy, M. Vijaya Kumar, and B. Prasanthi	International Research Journal of Engineering and Technology, Vol. 2, Issue 7, Oct. 2015	471	478
10	" Hybrid Fuzzy Logic Pitch Angle Controller to A PMSG Wind Turbine System" ] M.RamasekharaReddy, Dr.M.VijayaKumar, Srikar.K	IJSRSET, Vol.2, Issue6, 2016	442	449
11	"Effect Of POD Controlled Ultra capacitors For Frequency Stability Enhancement By Means Of UFLS Scheme" M.Rama Sekhara Reddy G.Rana prathap, K.Venu Gopal Reddy	International Research Journal of Engineering and Technology (IRJET),Vol.3, Issue10, 2016	1230	1236

12	"REDUCTION OF LINE LOSS BY USING UPFC IN ISOLATED SUBSTATIONS AND MULTIPLE LOOP DISTRIBUTION SYSTEMS" M. Ramasekhar Reddy M. Sushmi	International Research Journal of Engineering and Technology (IRJET), Vol.3, Issue10, 2016	882	887
13	"A novel three phase asymmetric multilevel inverter with series H-bridges" M.Mahesh.M.Rama sekhar Reddy D.Nagendra babu.	International Research Journal of Engineering and Technology (IRJET), Vol.3, Issue10, 2016	1090	1095
14	"comparison between ABC and CS algorithms with respect to capacitor locations on radial distribution networks to minimize of power loss" M.RamasekharReddy,E.Kalyan hakravathy	International Research Journal of Engineering and Technology (IRJET), Vol.3, Issue10, 2016	993	999
15	"Design & Analysis of ANFIS controller for three phase UPS system under unbalanced loads & Distorted grid voltages" M.Rama Sekhara Reddy, Y.Harish babu	International research journal of Engineering and Technology, Vol.3, Issue12, 2016	1255	1261
16	"Fuzzy based transformer less single phase universal APF for harmonic and reactive power compensation" M.Ramasekhara Reddy, D.Surendra	International Research Journal of Engineering and Technology (IRJET), Vol.4, Issue 3, 2017	344	351
17	"A review of Power quality Issues and Mitigation Techniques in Wind Energy Conversion system Integrated to Grid", M.RamasekharaReddy, Dr.M.Vijaya Kumar	IJAETMAS, Vol.05, Issue1,2018	06	16
18	"Performance Analysis of FACTS Devices for Reduction of Power Quality Issues in DFIG" M.RamasekharaReddy,Dr.M.Vijaya Kumar	IJET,7(3.29),2018	49	56
19	Control Strategy of Photovoltaic System to Regulate Active and Reactive Power during Unbalanced Grid Voltages by using Fuzzy Logic Control	International Journal of Engineering & Technology,7(4.18), 2018	455	460
20	Implementation of Intelligent Algorithms for Pitch Angle and Output Power Control of DFIG Wind Turbine System	International Journal of Recent Technology and Engineering(IJRTE), Volume-8, Issue-2, July 2019	2046	2050

21	Interlinked AC-DC Microgrids by Fuzzy Based Tie- Converters for Autonomous Power Management	International Journal of Recent Technology and Engineering(IJRTE), Volume-8, Issue-2, July 2019	4407	4412
22	Improvement of Control Strategy for PMSG Based WECS under Strong Wind Conditions with ANSFIS Controller	International Journal of Recent Technology and Engineering(IJRTE), Volume-8, Issue-4, November 2019	11184	11189
23	Fuzzy Based Combined Feed- Forward and Feed-Back Controlled Dynamic Voltage Restorer for Enhanced Fault Ride Through Capability in DFIG Based Wind Turbines	International Journal of Innovative Technology and Exploring Engineering(IJITEE), Volume-9, Issue-2, December 2019	2673	2679
24	Synchronization and Coordinated Fuzzy Current Control Scheme of PMSG Based WECS in The Presence of Severe Grid Fault.  M.sailusutha, M.Ramsekhara Reddy	International Journal of Recent Technology and Engineering(IJRTE), Volume-8, Issue-3, September 2019	158	163
25	Control Strategy with ANFIS Controller for DC fault current limiter without arrester for half bridge modular multilevel converters based on pre- charged external capacitors.  K.Vamsidhar, M. Ramasekhara Reddy	International Journal of Research, Volume VIII, Issue VI, June 2019	7326	7341
26	Power Quality Improvement in DFIG Based WECS Connected to the Grid using UPQC Controlled by Fractional Order PID and ANFIS Controllers.  M.Ramasekhar Reddy, G.Panduranga Reddy, M.Vijaya Kumar	JOURNAL OF MECHANICS OF CONTINUA AND MATHEMATICAL SCIENCES, J. Mech. Cont.& Math. Sci., Special Issue, No.-5, January (2020)	1	13
27	Power Quality Improvement using Inductive Hybrid UPQC with Neural Networks.  Dr.M.Ramasekhara Reddy, S.Supriya	Design Engineering(Toronto), Issue.8,2021	17756	17781
28	Enhanced Power Quality for Grid-Connected PV Systems using Trans ZSI-DVR Based on ANN Controller  Dr.M.Ramasekhara Reddy, J.Jaya Sravani	Design Engineering(Toronto), Issue.8,2021	12639	12653

29	Design and Implementation Hybrid Energy Storage System with UPQC by using ANFIS Controller  Dr.M.Ramasekhara Reddy, V.Mounika	Design Engineering(Toronto), Issue.8,2021	9090	9107
30	Hardware Development of Isolated Output Power Supply using Regenerative Snubber with Magnetic Amplifier as Second Regulator  Sivaprasad Naru, Munisekhar Sadu, Dr.M.Ramasekhara Reddy	Zeichen Journal, Vol.7, Issue9,2021	56	70
31	Reactive Power Compensation Accuracy for STATCOM by using ANFIS Controller  Dr.M.Ramasekhara Reddy, M.Sushmitha	Journal of Optoelectronics Laser, Vol.41 Issue.11, 2022	259	273
32	Hybrid Energy Generation with Brushless Generators by using SEPIC  Dr.M.Ramasekhara Reddy, K.Raj Kiran	Journal of Optoelectronics Laser, Vol.41 Issue.11, 2022	161	173
33	An Interlinking Converter for Renewable Energy Integration in to Hybrid Grids by using Fuel Cell  Dr.M.Ramasekhara Reddy, S.Pavan Kumar	Journal of Optoelectronics Laser, Vol.41 Issue.11, 2022	209	217
34	Enhancing Power Quality in Grid-Connected Systems using Series- Connected Voltage Source Converter(VSC)  Dr.M.Ramasekhara Reddy	Res Militaris Vol.12, 6 Spring 2022	3999	4007
35	Three Phase Grid Connected Solar PV System Modelling for Micro Grid  Dr.M.Ramasekhara Reddy, P.Sudeepika	International Journal on Recent and Innovation Trends in Computing and Communication, Vol.11, Issue 6,2023	564	571
36	Comparative Performance Analysis of Different Cathode materials of Solid State Lithium ion Battery  Dr.M.Ramasekhara Reddy, Dandu Srinivas	International Journal on Recent and Innovation Trends in Computing and Communication, Vol.11, Issue 11,2023	465	478
37	Optimal Planning of Type-1 DGs in EV Incorporated Radial Distribution Network  Dr.M.Ramasekhara Reddy, Dandu Srinivas	International Journal on Recent and Innovation Trends in Computing and Communication, Vol.11, Issue 11,2023	1152	1161

38	Optimal Location of Electric Vehicle Charging Station in Reconfigured Radial Distribution Network  Dr.M.Ramasekhara Reddy, Dandu Srinivas	International Journal of Electrical and Electronics Research(IJEER), Vol.11, Issue 4.	1065	1071
39	Implementation of ANN Controller to enhance the Performance of Solar PV and Battery integrated Unified Power Quality Conditioner for Micro Grid Systems  Dr.M.Ramasekhara Reddy, N.Srihari	TIJER-International Research Journal, Volume 11, Issue 2, 2024	a23	a37
40	Artificial Neural Network Controller Topology For Grid-Tied Photovoltaic Power Generation System with DC Voltage Drop Control  Dr.M.Ramasekhara Reddy, C.Babu Reddy	Journal of Systems Engineering and Electronics. Vol34 Issue 6, 2024	143	152
41	Enhancing Microgrid Performance of Fuzzy MPPT-Controlled Energy Management for Small-Scale Hybrid Wind-Solar- Battery System  S.Vasu Lingam, Dr.M.Ramasekhara Reddy	Journal of Systems Engineering and Electronics. Vol34 Issue 7, 2024	206	218

**VIII) Patents Published/Granted:**

S.No.	Title of the Patent	Name & Year	Published/ Granted
1.	An Efficient and Automated Smart Heating Bucket	Dr.M.Ramasekhara Reddy & 27.01.2020 (Patent number: 2020103897)	Granted
2.	Method and System for Providing Integrated Solutions to Internet of Things (IoT)Based Power Grids	Dr.M.Ramasekhara Reddy & 29/10/2021 (202121043296 A)	Published
3.	Method and System for Post- Collision Electrical Vehicle Analysis using Block chain Technology	Dr.M.Ramasekhara Reddy & 31/03/2023 202341017372 A	Published

**iX) M.Tech Projects Guided:**



S.No.	Name of the Student	Title	Year
1	B.AhmedShareef (08001D0720)	Network Configuration Optimization in Large Distribution Systems using Plant Growth Simulation Algorithm	2010
2	Nazeer Shaik (08001D4207)	Direct Torque Control of Grid Synchronized Doubly Fed Induction Generator	2010
3	A.Praveen Kumar (08001D4217)	Reduced Switch Control for DC- AC Conversion	2010
4	P.Sudeepika (09001D4202)	Modeling and Simulation of Doubly Fed Induction Generator Driven by a Variable Speed Wind Turbine	2011
5	M.Mounika (09001D4211)	Control Strategy for Unbalanced Voltage Sags to Ride Through Doubly Fed Induction Generator	2011
6	G. Sudhakar Reddy (09001D4207)	Impact of 3-Phase to Ground Fault and its Effect on Reactive Power in Wind Turbines	2011
7	M.Ram Babu (08001D4221)	Design of a Direct Torque Neuro fuzzy Controller Induction Motor Drive	2011
8	V.Phaneendra (09001D4205)	Constant Power Control and Fault Ride Through Enhancement of DFIG Wind Turbines with Energy Sotrage	2011
9	K. Uday Kumar Reddy(10191D0714)	Energy Storage System for a Wind Driven Variable Speed PMSG	2012
10	A.V.Sudhakar Reddy (10191D0704)	Performance Analysis of Wind Turbine Driven DFIG using Stator Field Oriented Control	2012
11	D.Srinivas (10191D0723)	Power Quality improvement of a Grid Connected Wind Energy Conversion System using STATCOM and BESS	2012
12	N.L.Anand Babu(10191D0725)	PWM Converters for the Control of PMSG Wind Turbines	2013
13	SK.Afrin (11001D2314)	Comparison Between SVM and PWM Inverter in Sliding Mode Control of DFIG	2013
14	A.N.Jyothirmayi	Fault Ride Through of a DFIG Wind Turbine	2014

	(11001D2107)	using a Dynamic Voltage Restorer	
15	C. Lakshmimadhusudan Reddy (11001D2325)	Current Ripple Analysis of Decoupled SVPWM Based Dual Inverter Fed Open End Winding Induction Motor Drive	2014
16	Nagaraju Lakunda (11001D2301)	Enhancement of Low Voltage Ride Through Capability of Brushless Doubly Fed Induction Generator	2014
17	B.V.Ramana Moorthy (11002D2104)	A Multi Input Converter Structure for Hybrid Wind – Solar Energy Systems	2014
18	G.Gayatri (11002D2111)	Five Level Inverter for Grid Connected PV System Employing Fuzzy Controller	2014
19	Subhakar Babu.D ( 11001D2318)	Control of a Doubly Fed Induction Generator with an Indirect Matrix Converter by Changing DC Voltage	2014
20	R.Vinu Priya ( 13001D2312)	Comparison of PID and Fuzzy Controller for Dual Inverter Based Super Capacitor in Wind Energy System	2015
21	B. Anjinamma (13001D2323)	Control Scheme for Stand- Alone and Grid Connected WECS using SEIG	2015
22	M.Shireesha Reddy (12001D2324)	Advanced Control Scheme for an IPM Synchronous Generator Based on Gearless Variable Speed Wind Turbine	2015
23	P.Niranjan (13001D2117)	Dynamic Stability Improvement of Grid Connected PMSG- Based Offshore Wind Farm using a STATCOM	2015
24	B. Prasanthi (13001D2326)	Simulation of Grid Connected Induction Generators for Power Quality Improvement	2015
25	Lokesh.P (13001D2321)	A Fuzzy Controller Based Grid Connected Offshore Wind Farm using STATCOM	2015
26	K. Thirupathi Rao (12001D2115)	Flicker Mitigation of Variable Speed Wind Turbines with DFIG using Individual Pitch Control	2015
27	V.Suresh (12001D2113)	Stabilization of DFIG – Based Wind Generator by Implementing Virtual Inertia	2015

28	E. Thrivikram (12001D9112)	Simulation for Evaluation of Reliability Indices using FMEA Technique	2015
29	K.Haneesha (12001D2323)	Analysis of Permanent – Magnet Synchronous Generator with Vienna Rectifier for Wind Energy Conversion System	2015
30	S. Maheswara Reddy (12001D2321)	Dynamic Model and Control of DFIG Wind Energy Systems Based on Power Transfer Matrix	2016
31	M. Sushmi(14001D2129)	Reduction of Line Loss by using UPFC in Isolated Substation and Multiple Loop Distribution Systems	2016
32	T. Penchalaiah (14001D2106)	Governor Controllers of heavy Duty Gas Turbine Performance Comparison using PI Controllers and Fuzzy Logic Controller	2016
33	Srikar.K (14001D2118)	Hybrid Fuzzy Logic Pitch Angle Controller to a PMSG Wind Turbine System	2016
34	D. Nagendra Babu (14001D2116)	A Novel Three Phase Asymmetric Multi Level Inverter with Series Connection of H-Bridges	2016
35	E.Kalyana Chakravarthy (14001D2119)	An EMCS Approach to Evaluate the Reliability of Radial Distribution System	2016
36	B. Nanemma (14001D2127)	Design of Adaptive Power Oscillation Damping Controller by STATCOM with Energy Storage	2017
37	D.Surendra (14001D2121)	Design & Analysis of ANFIS Controller for Three Phase UPS System Under Unbalanced Loads & Distorted Grid Voltages	2017
38	P.Bhaskar (13001D9114)	An EMCS Approach to Evaluate the Reliability of Radial Distribution System	2017
39	Y.Harish Babu (14001D2115)	Design & Analysis of ANFIS Controller for Three Phase UPS System under Unbalanced Loads & Distorted Grid Voltages	2017
40	G.Trilokya (16001D2113)	Control Strategy of photovoltaic System to Regulate Active and Reactive during Unbalanced Grid Voltages by using Fuzzy Logic Controller.	2019

41	M.Mahesh (16001D2119)	A Fuzzy Based Synchronous Flux Weakening Control with Flux Linkage Prediction for Doubly Fed Wind Power Generation Systems	2019
42	N.Priyadarsini (17001D2131)	Implementation of Intelligent Algorithms for Pitch Angle and Output Power Control of DFIG Wind Turbine System	2019
43	B.SaiCharan Reddy(17001D2126)	Improvement of Control Strategy for PMSG Based WECS under Strong Wind Conditions with ANFIS Controller	2019
44	A.G. Tejaswani(17001D2127)	Interlinked AC-DC Microgrids By Fuzzy Based Tie- Converters for Autonomous Power Management	2019
45	SidduBalarami Reddy	Fuzzy Based Combined Feed- Forward and Feed-Back Controlled Dynamic Voltage Restorer For Enhanced Fault Ride Through Capability in DFIG Based Wind Turbines	2019
46	M.Sailasutha (17001D2129)	Synchronization and Coordinated Fuzzy Current Control Scheme of PMSG Based WECS in The Presence of Severe Grid Fault.	2019
47	C.Venkata madhavi(16001D2124)	Current Harmonic Detection with ANFIS Control Applied in Photovoltaic inverter for Ancillary Services	2019
48	B.Lavanya(16001D2117)	Simulation of Power System Stability Evaluation of PV Technology with Fuzzy Synchronous Power Controllers under Expanding Penetration	2019
49	G.Reddy Kumari	FOPID Based DFIG Wind Power System Resonances on Impedance Modeling of DFIG under Weak Grid	2021
50	Kotla Amala	Control and Design of FOPID Based Energy Management for The Grid Integration of Renewable Energy Sources	2021
51	N.Sheeba Rani	A Novel Transient Based Approach for Islanding Detection in Distributed Generation System by Using FOPID Controller	2021
52	K.Lakshmi Siva Nikhitha	Fuzzy Logic based LVRT Scheme for Three Phase Grid Connected PV Systems	2021
53	M.Poorna Chandra	Fuel Cell Integrated A Four Wire Distribution Grid Unified Voltage and Current Quality	2021

		Conditioner Analysis using Different Controls	
54	V.Mounika	Design and Implementation of SPV-Unified Power Quality Conditioner System using ANFIS Controller	2021
55	S.Supriya	Analysis of NN for An Inductive Hybrid Unified Power Quality Conditioner for Power Quality Improvement	2022
56	J.Jaya Sravani	Power Quality Improvement using Trans ZSI-DVR Based on ANN Controller for Grid Connected PV Systems	2022
57	S.Pavan Kumar	An Interlinking Converter for Renewable Energy Integration In to Hybrid Grids by using Fuel Cell	2022
58	M.Sushmitha	Reactive Power Compensation Accuracy for STATCOM by using ANFIS Controller	2022
59	K.Rajkiran	Hybrid Energy Generation with Brushless Generators by using SEPIC	2022
60	N.Srihari	Implementation of ANN Controller to Enhance The Performance of Solar PV and Battery Integrated Unified Power Quality Conditioner for Micro Grid Systems	2024
61	C.Babu Reddy	Artificial Neural Network Controller Topology For Grid-Tied Photovoltaic Power Generation System with DC Voltage Drop Control	2024
62	S.Vasu Lingam	Enhancing Microgrid Performance of Fuzzy MPPT-Controlled Energy Management for Small-Scale Hybrid Wind-Solar- Battery System	2024

**ix)  
Awards  
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1. Dr.APJ Abdul Kalam Best Teacher Award from Sai Radha Krishna Educational Society on 11.12.2022.
2. University Appreciation Awards-2023 for Patent grant, JNTU, Anantapur on 13.12.2023.

**X) Books:**

S.No	Month and year of Publication	Title of the Book	Name of the Publisher	ISBN No.
1	August, 2021	Optimal Capacitor Placement in Distribution Systems	Lambert Academic Publishing(LAP)	978-3-330-04412-2
2	March, 2023	Renewable Energy Sources	msr edusoft Private Limited	978-93-6371-526-4
3	January, 2024	Beyond Engines: Electrical Drives Transforming Traction Landscapes	Scientific International Publishing House	978-93-5757-862-2

***XI) Subjects Taught:***

**U.G. Courses:**

1. Electrical Technology
2. Electromechanics – II
3. Fundamentals of HVDC and FACTS
4. Power System Operation & Control
5. Microprocessors & Microcontrollers
6. FACTS Controllers and Their Applications
7. Power System Stability and Control
8. Renewable Energy Sources
9. Non Conventional Energy Sources
10. Electrical Measurements
11. Utilization of Electrical Energy
12. Computer Control of Power Systems

**P.G. Courses:**

1. Advanced Microprocessors
2. FACTS Controllers & Their Applications
3. Economic Operation of Power Systems

4. Advanced Power Semiconductor Devices
5. HVDC Transmission
6. Power Quality Issues and Improvement
7. Applications of Power Electronics to Power Systems
8. Wind Energy Conversion Systems
9. Energy Auditing and Demand Side Management

***XII) Organization of Seminars/ Conferences/ Workshops/ Summer/ Winter Schools/ Community Service programmes, etc. :***

- 1) Organized Community Services Programme on “Substation Maintenance & its Safety Measures “from 21-01-08 to 04-02-08.
- 2) Organized Student Symposium “EYE-2019” on 14<sup>th</sup> & 15<sup>th</sup> March, 2019 as faculty Co-ordinator.
- 3) Organized Student Symposium “EYE-2022” on 09<sup>th</sup> & 10<sup>th</sup> May, 2022 as faculty Co-ordinator.
- 4) Organized one day workshop on “ 1<sup>st</sup> July, 2019 as Co-Coordinator.
- 5) Organized Faculty Development Programme on “ Design and Development of Power Converters for Electric Vehicles” on 11<sup>th</sup> -15<sup>th</sup> September, 2023 as Program Convenor at EEE Department, JNTUACE, Anantapur..
- 6) Organized Professional Development program on “ EV Design and Applications to Aero Space Systems” on 25<sup>th</sup> – 29<sup>th</sup> November, 2024, as Program Convenor at EEE Department, JNTUACE, Anantapur. as Program Convenor at EEE Department, JNTUACE, Anantapur.
- 7) Organized Student Symposium “EYE-2K25” on 04<sup>th</sup> & 05<sup>th</sup> April, 2025 as Convenor.

***XIII)Any Other:***

- Acted as Fact Finding Committee member for granting University affiliation to various self-financing institutions.
- Acted as Judge at National level Student Technical Symposiums organized by various institutions.

- Acted as Judge for NSS University level Youth Festival 2016.
- Acted as IQAC coordinator for the Department
- Acted as Organizing Member for State level NSS Youth Festival on 12<sup>th</sup>& 13<sup>th</sup> February 2015.
- Governing Council Chairman , Government Polytechnic, Narpala(A.P.),
- **Executive Council Member, JNTUniversityAnantapur, Ananthapuramu from 01-09-2023 to Till date**
- BOS Member, Department of EEE , JNTUA College of Engineering since 2022 to Till date
- BOS Member, Department of EEE, Sree Venkatesa Perumal College of Engineering and Technology, Puttur since 2022 to Till date .
- BOS Chairman, Department of EEE, JNTUA College of Engineering since 2022 to Till date
- Academic Council Member, Sree Rama Engineering College, Tirupati since 2024 to Till date.

( Dr.M.RAMASEKHARAREDDY )