



**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, “CPE” status by UGC, Certified by ISO 9001:2015

**Research & Development**

**Department of Electrical & Electronics Engineering**

**List of R&D Projects, Patents, Books&Publications for the A.Y 2020-21**

**A.Y 2020-21**

**Publications:**

S.No	Name of the authors	Title of the paper	Name of the Journal	Indexing
1.	Raghu Thumu, <b>Kadapa Harinadha Reddy</b> , Chilakala Rami Reddy	Unified power flow controller in grid-connected hybrid renewable energy system for power flow control using an elitist control strategy	Transactions of the Institute of Measurement and Control, ISSN NO: 0142-3312, Volume: 43 issue: 1, page(s): 228-247 January 1, 2021. <a href="https://doi.org/10.1177/0142331220957890">https://doi.org/10.1177/0142331220957890</a>	SCI
2.	Ch.Amarendra <b>K.Harinadha Reddy</b>	Performance analysis intelligent-based advanced PSO algorithm and testing of real-time matrix converter electrical system	Soft Computing (Springer), ISSN: 1433-7479, Volume: 24 issue: 18, page(s): 14209-14220, September, 2020. <a href="https://doi.org/10.1007/s00500-020-04789-9">https://doi.org/10.1007/s00500-020-04789-9</a>	SCI
3.	S.Govinda Raju, <b>K.Harinadha Reddy</b> , Ch.Rami Reddy	Islanding Detection Parameters for Integrated Distributed Generation	<b>Recent Advances in Electrical &amp; Electronics Engineering</b> <b>ISSN: 2352-0973</b> , Vol.14, No.2, PP: 131-143.DOI: 10.2174/213520965139992007241754113.	ESCI
4.	<b>P.Sobha Rani</b> <b>R.Padma</b> R.Sarveswara Prasad <b>P.Rathnakar Kumar</b>	Enhancement of Power Quality in Grid Connected PV System	Indianjournal Of Science And Technology, ISSN : 0974-6846, Volume-13, Issue-35, pp-3630-3641 Published on: 29-9-2020.	Online

5.	R.Sravani <b>P.Deepak Reddy</b>	V/C Digital Controlled DC-DC Converter	International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-9 Issue-3, September 2020,pp-167-175	Online
6.	Divya Sathya Sree.I, <b>Pangedaiah.B</b>	A New Islanding Detection Technique using Ensemble Empirical Mode Decomposition	International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-9 Issue-3, September 2020,	Online
7.	CH. Aparna <b>J.V.Pavan Chand</b>	Performance of Flywheel Energy Storage System for Fault Ride through Support of Grid Connected Vsc-Hvdc Based Offshore Wind Farms	International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-9 Issue-12, October 2020, PP-189-192	Online
8.	G.Mounika Ch. Teja Bhanu Prakash Ch. Deepak E. Shanmugha Muni <b>A.V. Ravi Kumar</b>	Sensor Based Automation And Control Of Coal Handling Plant Using Plc.	Compliance Engineering Journal, ISSN NO: 0898-3577. Volume 11, Issue 7, July 2020. Page no. 408-413	Online
9.	V.Prabhakar Reddy <b>J.Siva Vara Prasad</b>	Performance of Isolated Soft Switching Current Fed Lcc-T Resonant Dc-Dc Converter for Pv/Fuel Cell Applications	International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-10 Issue-1, November 2020.PP-1-4	Online
10.	<b>Pangedaiah Bezawada</b> Pedda Obulesu Yeddula Venkata Reddy Kota	A new time domain passive islanding detection algorithm for hybrid distributed generation systems	International Transactions on Electrical Energy Systems. Volume 30, Issue 12, December 2020, Page. No: 1-14 ISSN NO: 2050-7038	SCI
11.	<b>Dr.A V G A Marthanda,</b> <b>Dr. G. V. Marutheswar</b>	Determining The Appropriate Inclination Angle And Annual Energy Difference In Electricity Generation With Photovoltaic Cells	International Journal of Advanced Research in Engineering and Technology (IJARET), Volume 11, Issue 12, December 2020, Page. No: 3102-3112 ISSN NO: 0976-6480	Online
12.	V.Venkatrami Reddy, K.Bhaskar Mutyalu, S.Srinivasa Reddy, <b>M.Raja Nayak</b>	Modelling and Manufacturing of Progressive die for Mechanical Operations	<b>Turkish Journal of Computer and Mathematics Education</b> , ISSN NO: 1309-4653. Vol.12 No.3(2021), 3662-3671. April-2021. DOI: <a href="https://doi.org/10.17762/turcomat.v12i3.1647">https://doi.org/10.17762/turcomat.v12i3.1647</a> .	Scopus Indexed
13.	K.Girinath Babu <b>J.Sivavara Prasad</b> V.Vasudevan	Single Input Single Output Two Level Isolated Dc-Dc Converter With Secondary Side Phase	<b>Information Technology in Industry</b> , ISSN (Print): 2204-0595, Vol. 9, No.2, March, 2021.	ESCI

		Shifting For Solar Applications	PP: 433-442.	
14.	K.Girinath Babu <b>J.Sivavara Prasad</b> V.Vasudevan	Three-Phase Three-Level Isolated DC-DC Soft Switching Converter For Solar Applications	<b>Information Technology in Industry</b> , ISSN (Print): 2204-0595, Vol. 9, No.2, March, 2021. PP: 443-451.	ESCI
15.	<b>M. Raja. Nayak</b> , M.Saritha <b>S. Abdul. Mujeer</b> B.Devulal T.Santhosh Kumar	A Photovoltaic Based Multilevel Inverter Fed Induction Motor Drive	<b>Turkish Journal of Computer and Mathematics Education</b> , Vol.12 No.10 (2021), 6196-6212. April-2021. LINK: <a href="https://turcomat.org/index.php/turkbilmal/article/view/5459">https://turcomat.org/index.php/turkbilmal/article/view/5459</a>	Scopus Indexed
16.	<b>P.Deepak Reddy</b> , <b>M.Raja Nayak</b>	A Novel Review on Modular Multilevel Converter for Induction Motor Drive Applications	<b>Turkish Journal of Computer and Mathematics Education</b> ISSN: 1309-4653, Vol.12 No.10 (2021), PP: 6303-6309. April-2021. LINK: <a href="https://turcomat.org/index.php/turkbilmal/article/view/5471">https://turcomat.org/index.php/turkbilmal/article/view/5471</a>	Scopus Indexed
17.	<b>Pangedaiah Bezawada</b> Pedda Obulesu Yeddula Venkata Reddy Kota	A Novel Time-Domain Passive Islanding Detection Technique for Grid-Connected Hybrid Distributed Generation System	Arabian Journal for Science and Engineering. ISSN: 2193-567X, April-2021.  <a href="https://doi.org/10.1007/s13369-021-05493-y">https://doi.org/10.1007/s13369-021-05493-y</a>	SCI
18.	<b>Pangedaiah Bezawada</b> Y P Obulesu Venkata Reddy Kota	A New Architecture Topology for Back to Back Grid-Connected Hybrid Wind and PV System	Journal of Electrical Engineering & Technology. ISSN: 1975-0102, Volume 16, Pages: 1457–1467 .May-2021. <a href="https://doi.org/10.1007/s42835-021-00685-w">https://doi.org/10.1007/s42835-021-00685-w</a>	SCI
19.	T.Naga Durga, K.S.Lakshmi Lavanya, G.Tabita	Maximum Power Extraction from Solar Photovoltaic Strings Using Grey Wolf Optimization Technique Under Partial Shading Condition	Design Engineering, ISSN: 0011-9342 VOL.2021, ISSUE: 04, PP:1276 - 1285. May-2021. <a href="http://www.thedesignengineering.com/index.php/DE/article/view/1663">http://www.thedesignengineering.com/index.php/DE/article/view/1663</a>	Scopus Indexed
20.	Dr. R.Venkatasubramanian, <b>Dr.A.V.G.A.Marthanda</b> , Dr.J.Karthika , M. Devika Rani Dr.S.JaanaaRubavathy, R.Venkatesh	Propeller Load Characteristic Pmsm Vector Control System Simulation Based	Annals of R.S.C.B., ISSN:1583-6258, Vol. 25, Issue 6, 2021, Pages. 4248 – 4254. May 2021. <a href="https://www.annalsofrscb.ro/index.php/journal/article/view/6257">https://www.annalsofrscb.ro/index.php/journal/article/view/6257</a>	Scopus Indexed
21.	Dr, D. Stalin David <b>Dr. G. Nageswara Rao</b> Mahendra Pratap Swain ,	Inflammatory Syndrome Experiments Related With Covid-19	Turkish Journal of Physiotherapy and Rehabilitation	Scopus Indexed

	Uriti Sri Venkatesh E. Fantin Irudaya Raj, D. Saravanan		ISSN 2651-4451 Vol. 32, Issue 3, pp: 765-768. May 2021 <a href="https://turkjphysiotherrehabil.org/pub/pdf/321/32-1-92.pdf">https://turkjphysiotherrehabil.org/pub/pdf/321/32-1-92.pdf</a>	
22.	Koteswara Rao Vaddempudi, <b>Dr.G.Nageswara Rao</b> , D.Saravanan, S.Sindhura, S.Gopa Kumar, Dr. D. Stalin David	Marine Area Remote Sensing Monitoring Withadvanced Flight Regulator And Self- Directed Regulator	Turkish Journal of Physiotherapy and Rehabilitation ISSN 2651-4451 Vol. 32, Issue 3, pp: 1584-1590. May 2021 file:///C:/Users/admin/Downloa ds/32-1-190.pdf	Scopus Indexed
23.	Dr. K. SEETHARAM, <b>R. ANJANEYULU NAIK</b>	A Novel CMOS Implementation of FM0/Manchester Encoding Technique for DSRC Applications	Journal of Interdisciplinary Cycle Research Volume XIII, Issue V, May/2021 ISSN NO: 0022-194, Volume XIII, Issue V, May/2021 ISSN NO: 0022- 1945 Page No: 1741-1748	Online
24.	<b>R. ANJANEYULU NAIK</b> Dr. K. SEETHARAM,	Low Density Parity Check Channel Coding For 5G New Radio	Journal of Interdisciplinary Cycle Research Volume XIII, Issue V, May/2021 ISSN NO: 0022-194, Volume XIII, Issue V, May/2021 ISSN NO: 0022- 1945 Page No: 1749-1760	Online
25.	<b>Dr. G. Nageswara Rao</b>	Power Quality Improvement Using Active Power Filter	International Journal of Research and Analysis in Science and Engineering, ISSN: 2582-8118 Volume 1, Issue 3; May 2021, pp: 1-9	Online
26.	<b>G.Nageswara Rao</b> K.Aruna Kumari D.Ravi Shankar K.G.Kharade	A comparative study of augmented reality- based head-worn display devices	Materials Today Science Direct Elsevier, ISSN:2214-7853 <a href="https://doi.org/10.1016/j.matpr.2020.12.400">https://doi.org/10.1016/j .matpr.2020.12.400</a> , February 2021	Scopus
27.	<b>Sobha Rani.P</b> <b>Giridhar.M.S.</b> <b>Padma.R</b>	Novel Contingency Analysis of Radial Distribution System with Distributed generation	Turkish Journal of Computer and Mathematics Education, ISSN: 1309-4653, Vol.12 No 13 (2021), PP: 5289- 5299, <a href="https://turcomat.org/index.php/turkbilmат/article/view/9720">https://turcomat.org/ind ex.php/turkbilmат/article /view/9720</a>	Scopus

## 2. International Conferences

<b>S.No</b>	<b>Name of the authors</b>	<b>Title of the paper</b>	<b>Name of the Conference</b>	<b>Indexing</b>
1.	<b>M. Raja. Nayak</b> <b>S. Abdul. Mujeer</b>	New Computational Method for Study of Ionic Current Environment of HVDC Transmission Lines	<b>IEEE International Conference on Advances and Developments in Electrical and Electronics Engineering (ICADEE)</b> ISBN: 978-1-7281-9251-2, PP-34-38. DOI:10.1109/ICADEE51157.2020.9368937.	Scopus Indexed
2.	T. S. Kumar, <b>M. Raja Nayak</b> , R. V. Krishna and K. P. Rao	Enhanced Performance of Solar PV Array-Based Machine Drives Using Zeta Converter	<b>IEEE International Conference on Advances and Developments in Electrical and Electronics Engineering (ICADEE)</b> ISBN: 978-1-7281-9251-2, PP-29-33. DOI:10.1109/ICADEE51157.2020.9368937.	Scopus Indexed
3.	M. Sivaramkrishnan, <b>A.V.G.A. Marthanda</b> K.Lakshmi Prasad; <b>Syed Abdul Mujeer</b> Udayakumar Durairaj Mohammed Salim	Simulation of PV and WECS using CUK and SEPIC converter	2021 5th International Conference on Intelligent Computing and Control Systems (ICICCS), ISBN NO: 978-1-6654-4834-5, PP: 6-8 May 2021 <a href="https://doi.org/10.1109/ICICCS51141.2021.9432225">https://doi.org/10.1109/ICICCS51141.2021.9432225</a> .	Scopus Indexed 978-1-6654-4834-5.
4.	Ch. Rami Reddy, <b>K.Harinadha Reddy</b> , B. S. Goud and B. Pakkiraiah,	A Deep learning approach for Islanding Detection of Integrated DG with CWT and CNN	IEEE Conference, ISBN NO: 978-1-7281-5682-8.doi: 10.1109/SeFet48154.2021.9375798, March 2021	978-1-7281-5682-8

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**HOD**