


## Profile

<b>Name of the Faculty</b>	Dr.M.ARUNA BHARATHI	
<b>Designation</b>	PROFESSOR	
<b>Department</b>	ELECTRICAL AND ELECTRONICS ENGINEERING	
<b>Area of Interest</b>	ENERGY HARVESTING	
<b>Subjects Taught</b>	ELECTRICAL MACHINES, CONTROL SYSTEMS, COMPUTER METHODS IN POWER SYSTEMS, BASIC ELECTRICAL ENGINEERING, POWER SYSTEMS, POWER QUALITY, HIGH VOLTAGE ENGINEERING, HYBRID ELECTRIC VEHICLES.	
<b>JNTUH Registration Id</b>	2741-170520-103020	
<b>College Staff Code</b>	SC 1289	
<b>Official Mail</b>	arunabharathi916.eee@gcet.edu.in	

## **Educational Qualifications:**

<b>S. No.</b>	<b>Degree</b>	<b>Specialization</b>	<b>University/College</b>	<b>Year</b>
1	Ph.D	ELECTRICAL AND ELECTRONICS ENGINEERING	JNTU Hyderabad	2015
2	M.Tech	EPE	JNTU Hyderabad	2007
3	B.Tech	EEE	JNTU Hyderabad	2002
4	Inter	MPC	St.Theresa's college for women	1995
5	SSC	SSC	APSWR School, Arugolanu	1993

## **Paper Publications:**

<b>S. No.</b>	<b>Publication details</b>
1	Synthesis Characterization and Density Functional Study of $\text{LiMn}_{1.5}\text{Ni}_{0.5}\text{O}_4$ Electrode for Lithium ion Battery Journal of Nano Electronic Physics, Sumy State University, Ukraine Vol. 6 No 1, 01005(5pp) April, (2014).
2	Lithium-Ion battery energy storage STATCOM for grid interconnected WPS International Journal of Advanced Engineering and global Technology(IJAEGT)-RSA ISSN No: 2309-4893
3	LIBS/STATCOM with PSO Based PI Controller for a Grid Connected Wind Energy System International Journal of Education and applied research IJEAR Jan - June 2014, ISSN: 2348-0033 (Online) ISSN: 2249-4944.
4	Structural and Electronic properties of $\text{LiMn}_2\text{O}_4$ Nano Material for Lithium Ion Battery, Quantum Matter, American Scientific Publishers (ASP)-USA, Vol.5, Number3, June2016, pp.365-368(4).
5	Power Quality Improvement in HVDC Networks using V2G Technology, International journal on control theory and applications, International science Press-Volume 9, Number-32, 2016, pp. 165-173. Design and Implementation of Robotic Tracking system for solar power generation, International journal on control theory and applications, International science press-Volume 9, Number- 32, 2016, pp. 49-56
6	Electric Vehicle Mathematical Modeling and Simulation Using MATLAB-Simulink, IOSR-JEEE,e-ISSN:2278-1676, P-ISSN:2320-3331, Vol12, Issue (Jul-Aug2017), pp47-53.

7	Power management of hybrid AC-DC microgrid with li-ion battery for pulse loads, IEEE-Xplore Digital library, NSPEC Accession Number: 17859254, June 2018,pp 569 – 574
8	Nano scaled LIB/STATCOM for Power Quality Improvement in a grid interconnected RES,International Journal of current Engineering and Scientific Research,IJCESR,ISSN (PRINT): 2393-8374, (ONLINE): 2394-0697, VOLUME-5, ISSUE-4, 2018
9	Synthesis and Characterization of Magnetic Nanomaterials for Transformer core Application, International Journal IJMTE (UGC approved journal) , Vol-IX, DOI:16.10089IJMTE/2343, 4220-4224(pp), ISSN NO: 2249-7455
10	Deep convolutional Neural network based smart assistant for blind people, IEEE X-Plore digital library, TENCON 2019 - IEEE Region 10 Conference (TENCON), Kochi, India, 2019, pp. 1697-1701.
11	Computational and Experimental Analysis Of LiFePO <sub>4</sub> /C Cathode Material For Lithium Ion Battery Applications, AIP Conference proceedings AIP Conference Proceedings 2269, 030047 (2020)
12	Synthesis And Characterization of LiMn <sub>1.5</sub> Ni <sub>0.5</sub> O <sub>4</sub> By SolGel Method for Cathode Material & It's Application In Li Ion Battery. AIP Conference Proceedings 2269, 030048 (2020); <a href="https://doi.org/10.1063/5.0019660">https://doi.org/10.1063/5.0019660</a>
13	Design and Analysis of Grading High Plate Type Spacer in a Single Phase Gas Insulated Busduct for reduction of electric field stress. AIP Conference Proceedings 2269, 030046 (2020)
14	Field Stress Control of a Post Type Grading Low Insulating Spacer with Functionally Graded Material in a Gas Insulated Bus duct. AIP Conference Proceedings 2269, 030045 (2020)
15	Insulation Integrity of Grading High Insulating Spacer with Functionally Graded Material in a Gas Insulated Bus duct. AIP Conference Proceedings 2269, 030039 (2020)
16	Wind-Hess System with a Fuzzy base Control Method, REVISTA GEINTEC-GESTAO INOVACAO E TECNOLOGIAS, ISSN: 2237-0722, Vol. 11, 1872-1882(PP), (2021).
17	Optimal Power Flow in Deregulated Power Systems by Using Optimization Techniques, REVISTA GEINTEC-GESTAO INOVACAO E TECNOLOGIAS, ISSN: 221883-19037-0722,Vol. 11 ,PAPER ID 2058, 1883-190 (PP)May2021

### **Books/Book Chapters Published:**

<b>S. No.</b>	<b>Publication details</b>
1	Methodology of Teaching Engineering Students: Towards Improvisation of Teaching-Learning Process. IOR International Press, ORCID id 000-0002-4024-4742 pages: 225-229 ( <b>Book Chapter</b> )

**Experience:**

<b>Teaching</b>	15 years
<b>Industry</b>	-
<b>Research</b>	07
<b>Total Experience</b>	15

