



**ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY**

**(Approved by AICTE, New Delhi & Affiliated to JNTU Kakinada)**


**Accredited by NAAC & An ISO 9001:2015 Certified Institution**

ITI Road, ALC Campus, VIJAYAWADA - 520 008 :: Website : [www.aliet.ac.in](http://www.aliet.ac.in) :: Ph : 0866 - 2476161

\*\*\*\*\*

## FACULTY PROFILE

\*\*\*\*\*

Name of the Faculty	Dr. RAVI KIRAN DASARI			
Designation	Assistant Professor			
Department	Electrical & Electronics Engineering			
Date of Joining the Institution	12-08-2020			
Qualification with Class/Grade	UG: B.Tech 1 <sup>st</sup> Class			
	PG: M.Tech (PE) 1 <sup>st</sup> Class with Distinction			
	Ph.D: Completed in October 202			
Employee ID	ALIET-20-03			
E-Mail	ravikiran.d@aliet.ac.in			
Total Experience in Years	Teaching: 8 years	Industry: 2 year	Research: 3 years	
Papers Published	National: ---	International: 06		
Papers presented in Conferences	National: 01	International: 02		
PhD Guide? Give field & University	Field: ---	University: ----		
PhDs / Projects Guided	PhDs: --	Projects at Masters Level: --		
		Projects at UG Level: 06		
Books Published/IPRs/Patents	Patent - 01 (Applied – In examination)			
Professional Memberships	---			
Consultancy Activities	---			
Awards	---			
Grants fetched	---			
Whether Ratified by University (Yes/No)	Yes			

### Projects:

- Designed and developed a “Battery Electric Vehicle (4-Wheeler)” which can run at a top speed of 45Kmph with a driving range of 40 Kms. Installed with LFP battery pack, vehicle is capable of carrying 1 ton weight and being used inside ALC-ALIET campus.
- Designed and developed a “Solar Charging Station”, installed in the parking premises of ALIET.

### Other Achievements:

- ❖ Expert in ANSYS-Maxwell software
- ❖ Certified in “Electric Vehicle Technology”, by Decibels Lab, Bangalore
- ❖ Delivered guest lecture on “Electrical Vehicle Technology”, at Loyola Polytechnic (YSRR), Pulivendula in July 2023.
- ❖ Delivered guest lecture on “DC-DC converters for EV application”, at Lendi Engineering College, Vizianagaram, in February 2020.
- ❖ Delivered guest lecture on “Closed loop DC-DC converters for EV application”, at PVP Siddhartha Engineering College, Vijayawada, in December 2019.
- ❖ Delivered guest lecture on “DC-DC converters with special machines for EV application using ANSYS-Maxwell software”, at St. Ann’s Engineering College, Chirala in September 2019.

### Experience in other Institutions:

- ❖ 2 year (August 2009 - 2011) in Vijay Agro Power Plant (Vijayawada, A.P, India) as Shift Manager.
- ❖ 1 years (May 2011 to May 2012) as Assistant Professor (Department of Electrical and Electronics Engineering) in Ramachandra College of Engineering, Eluru, India.
- ❖ 4 years (June 2013 to May 2017) as Assistant Professor (Department of Electrical and Electronics Engineering) in Eluru College of Engineering and Technology, Eluru, India.
- ❖ 3 year (June 2017 to August 2020) as Research Engineer in Sri Gajanan Pvt Ltd., Hyderabad.

### List of Publications (Journal/Conference/book):

- ❖ **Ravi Kiran Dasari, Dr. D. Godwin Immanuel**, “A Novel Cluster Switched Inductor Based High Step-Up Hybrid DC-DC Converter”, *Electr Eng* (2021). <https://doi.org/10.1007/s00202-021-01439-7> (Springer - SCI, Web of Science & Scopus indexed)
- ❖ **Ravi Kiran Dasari, Dr. D. Godwin Immanuel**, “Photo Voltaic Hybrid Boost Converter Fed Switched Reluctance Motor Drive for Electric Vehicle Application”, *International Journal of Power Electronics and Drive System (IJPEDS)*, Vol. 13, No. 1, pp. 275-288, March 2022. (Scopus indexed) DOI: 10.11591/ijpeds.v13.i1.pp275-288
- ❖ **Ravi Kiran Dasari, Dr. D. Godwin Immanuel**, “Analysis of Solar Integrated Symmetrical Hybrid Switched-Inductor DC-DC Converter Fed SRM Drive for Electric Vehicle Application”, *Tianjin Daxue Xuebao (Ziran Kexue yu Gongcheng Jishu Ban) / Journal of Tianjin University Science and Technology*, pp. 665-677, Vol. 55, Issue 04, ISSN: 0493-2137, April 2022. (Citescore 0.8, SJR 0.22, SNIP 0.396) Scopus indexed, DOI: 10.17605/OSF.IO/XHSC4 <https://tianjindaxuexuebao.com/details.php?id=DOI:10.17605/OSF.IO/XHSC4>
- ❖ **Ravi Kiran Dasari, Dr. D. Godwin Immanuel**, “Closed-Loop High-Gain DC-DC Converters for Renewable Energy Source Application” Published in *Advances in Intelligent Systems and Computing*, Springer, Volume 1369, 2021, pp 407-421.

- ❖ **Ravi Kiran Dasari, Dr. D. Godwin Immanuel**, “Comprehensive Review of Single Switch DC-DC Converters for voltage lift in RES application”, International Conference on power, Energy, Control and Transmission Systems (IEEE - ICPECTS), Chennai, 2018.
- ❖ **Ravi Kiran. D et al.**, "Power quality improvement of brushless permanent magnet and non-permanent magnet machines using DSTACOM," *2015 International Conference on Electrical, Electronics, Signals, Communication and Optimization (IEEE - EESCO)*, Visakhapatnam, 2015, pp. 1-6.
- ❖ **Ravi Kiran. D et al.**, “Sequential Switching Technique by using Hybrid IPDPWM for CMLI” (**IEEE - In press**).
- ❖ **Ravi Kiran. D et al.**, Enhancement of Power Quality in Distribution System with Reduced DSTATCOM Voltage Rating, *Int. Journal of Engineering Research and Application*, Vol. 3, Issue 5, Sep-Oct 2013, pp.1145-1152.
- ❖ **Ravi Kiran. D et al.**, Comparative analysis of nine level inverter with two different topologies, *International Journal of Advanced Research in Electrical, Electronics And Instrumentation Engineering*, Vol. 5, Issue 12, December 2016, pp 8999-9008.