



Dr. M L N Vital



Designation : Assistant Professor
E-Mail ID : mlnvital@vrsiddhartha.ac.in
Contact at : Department of Electrical and Electronics Engineering,
Siddhartha Academy of Higher Education
Kanuru, Vijayawada, Andhra Pradesh 520007.

Education

Ph. D (Electrical Engineering)

2025, National Institute of Technology (NIT), Raipur.

M.Tech (Power Electronics and Drives)

2010, Vellore Institute of Technology, VIT Vellore.

B. Tech (Electrical and Electronics Engineering)

2008, Jawaharlal Nehru Technological University, Hyderabad.

Experience

Period	Designation	Institution / Organization	Key Responsibilities
2010-Till date	Assistant Professor	Velagapudi Ramakrishna Siddhartha Engineering College.	Lab- In charge Electrical Measurements and control systems, department MOOCS coordinator

Research Interests

Broad Area of Research: Multi-level inverters for PV applications, DC-DC converters for EV applications, Grid tie inverters.

Honors and Awards: NIL

Courses Taught:

S. No	Course Name	Level (UG/PG)
1.	Power Electronics	UG
2.	Electrical Drives	UG
3.	Solar Photovoltaics	UG
4.	Advanced Power Electronics	PG
5.	Electrical Machines-I (DC Machines)	UG
6.	Electrical Machines-II (Transformers and Induction Motors)	UG
7.	Electrical Machines-III (Synchronous and Special Machines)	UG
8.	AI tools and Applications	UG
9.	Design Thinking	UG
10.	Digital Controllers (FPGA and DSP) for power electronic applications	UG
11.	Transmission and Distribution of Power Systems	UG
12.	Electrical Measurements	UG
13.	HVDC, FACTS	UG & PG

Research Profile

Publications

The recent publications and research contributions can be viewed from the following URLs

Google Scholar	https://scholar.google.com/citations?user=PIdrpM4AAAAJ&hl=en&oi=ao
Scopus	https://www.scopus.com/feedback/author/reviewAuthorProfile.uri?authorIds=57208109742
ORCID	https://orcid.org/my-orcid?orcid=0009-0001-9722-0266
Research Gate	
LinkedIn	https://www.linkedin.com/in/mln-vital-311329269/

Recognized Research Supervisor

S.No.	Department	University
01.	NIL	
02.		

Funded Research Projects

S.No.	Type	Title	Status	Funding Agency	Amount (INR)	Duration
01.	R&D under the National Perspective Plan (NPP)	Silicon Carbide Solutions for Next-Generation PV Inverters: Addressing Leakage and Efficiency Through Advanced Design	Applied	Central Power Research Institute (CPRI)	60 Lakhs	2 Years
02	ISRO RESPOND Proposal	Design and Realization of a GaN-Based Reconfigurable Radiation-Tolerant High-Frequency DC–DC Converter for Spacecraft Electrical Power Systems.	Applied	ISRO	48,35,600	2 Years

Administrative Roles

S.No.	Role	Institution	Duration	Responsibilities
1	Lab in charge	V R S E C	2013-till data	Procuring the required equipment in the lab.
2	Department Mooc's Coordinator	V R S E C		Department Mooc's Coordinator

Certifications/MOOC Courses Completed

S. No.	Title	Platform	Duration	Year
1.	Power systems	NPTel	12 weeks	2018-19
2.	AI FOR EVERYONE	Coursera	8 weeks	2019-20

Consultancy / Industry Projects

Completed	NIL
On-going	NIL
Applied	NIL

Patents

S.No	Title	Status	Application No.	Year
1.	NIL			

Ph. D

Awarded	NIL
Guiding	NIL

Invited Talks

No. of Invited Talks	01
----------------------	----

Professional Service / Reviewer

- .
- .

Professional Development Activities - Participations

Faculty Development and Training Programmes (at least 5 Days)	10
International / National Level Seminars	10
International / National Level Conferences	4/1
Workshops	9
Instructor-Led / Self-Paced Courses	1
Webinars	5

Professional Bodies Membership Details

S. No.	Membership No.	Society Name
1.	M-1817390	Institute of Engineers