

## Dr. MADHU KIRAN BUDDI

Department: **Electrical and Electronics Engineering Department**

College: **Gudlavalleru Engineering College**

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### RESIDENTIAL ADDRESS:

**Dr. MADHU KIRAN BUDDI**

H.NO: 59-8/1-3/1,F1,SRAVYA TOWERS,GAYATHRI NAGAR,VIJAYAWADA-520008.

### ACADEMIC QUALIFICATIONS:

S. No	Qualifications	Institute/ University Name	Year of Passing	Regular/ Distance/ Part Time	Specialization
1	SSC	LOYOLA HIGH SCHOOL	1987	Regular	General
2	Diploma	ANDHRA POLYTEHNIC	1991	Regular	DECE
3	UG: AMIE	THE INSTITUTION OF ENGINEERS(INDIA)	1998	Part Time	ELECTRICAL
4	PG: M.Tech	JNTU COLLEGE OF ENGINEERING,KAKINADA	2004	Regular	APS
5	Ph.D: EEE	JNTUH	2018	Part Time	Power Electronics & Drives

### PROFESSIONAL EXPERIENCE:

S. No	Teaching:18 Name of the Organization & Address	Industry: 03 Job Title	Research: 06		Total: 21
			Period		To
			From	To	
1	Gudlavalleru Engineering College	Associate Professor	June, 2018	Till Date	
2	PSCMRCET, Vijayawada	Associate Professor	Oct 2009	May 2018	
4	Prasad V Potluri Siddhartha Institute of Technology, Vijayawada	Assistant Professor	June 2004	Sep 2009	
5	BVC institute of Technology & Science, Amalapuram	Assistant Professor	Nov 2003	May 2004	
6	AANM&VVSRR Polytechnic ,Gudlavalleru	Associate Lecturer	July2001	Jan2002	
7	AANM&VVSRR Polytechnic ,Gudlavalleru	Lecturer	July2000	June2001	

## PROJECTS GUIDED:

Ph.D	Post Graduation	Under Graduation
.....	02	30

**SPECIALIZATION:** Advanced power systems and Power Electronic & Electric Drives

## BOOKS PUBLISHED IN PUBLICATIONS: 01

Elements Of Electrical Engineering (Part A) for Intermediate Vocational Board ,A.P

## PAPERS PUBLISHED IN JOURNALS: 11

1. B. MadhuKiran and Dr. B. V. Sanker Ram, "Analysis of Cascaded H-Bridge Multilevel Inverter with Phase Shifted PWM on Induction motor," International Journal of Scientific Engineering and Technology Research, Vol.03, Issue 45 December-2014, pp9182-9193
2. B. MadhuKiran and Dr. B. V. Sanker Ram, "Analysis of Cascaded H-Bridge Multilevel Inverter with Level Shifted PWM on Induction motor," International Journal of Electrical and Electronics Engineering Research (IJEER-TJPRC Publications), Vol. 5, Issue 1, Feb 2015, pp11-32
3. B. MadhuKiran and Dr. B. V. Sanker Ram, "A Fault Tolerant Nine Level Cascaded H Bridge Multi Level Inverter for Electrical Vehicle Application," International Journal of Applied Engineering Research, Volume 11, Number 2 (2016) pp 870-886
4. B. MadhuKiran and Dr. B. V. Sanker Ram, "Mitigation Of Nine Level Inverterfaults Using Redundant Cell For Induction Motor Drive," European Journal of Scientific Research, Volume 139, Number 4, June 2016, pp315-336.
5. B. MadhuKiran and Dr. B. V. Sanker Ram, "Fault Identification And Mitigation In Seven Level Cascaded H-Bridge Inverter For Vehicular Application," ARPN Journal of Engineering and Applied Sciences, Vol. 11, No. 17, September 2016, pp 10239-10247.
6. B. Madhu Kiran, Dr. B. V. Sanker Ram, "Seven Level Inverter Fault Mitigation Using Redundant Cell For Induction Motor Drive," International Journal of Applied Power Engineering (IJAPE), Vol.7, No.3, December 2018, pp. 298~312.
7. B. MadhuKiran and Etal "Reduction of harmonics in Asymmetrical Multilevel Inverter Fed By Induction Motor", International Journal of Scientific Engineering and Technology Research Vol.05, Issue.07, March-2016, Pages:1335-1341
8. B. MadhuKiran and Etal "Solar Hybrid Vehicle", International Journal of Computer Science & Mechatronics, vol.2, issue3, 2016, pp10-19.
9. B. MadhuKiran and Etal "A Fuzzy Based Transformerless Inverter for Reactive Power Control in Grid-Tied PV System", TEST Engineering & Management, Volume 83 Page Number: 11353 – 11358, Publication Issue: May - June 2020.
10. B. MadhuKiran and Etal " A Fuzzy based Six-Pulse Modulation for DABCC Converter", TEST Engineering & Management, Volume 83 Page Number: 18462 - 18467 Publication Issue: May-June 2020.

11. B. MadhuKiran and Etal “ IEEE -30 Bus System Study with Memetic Differential Evolution Algorithm”, Jour of Adv Research in Dynamical & Control Systems, Vol. 11, No. 11, 2019.

### **PAPERS PUBLISHED IN CONFERENCES: 05**

1. B. MadhuKiran and Dr. B. V. Sanker Ram, “Fuzzy Controlled PV Cell Fed Multi Level Inverter for Induction Motor Drive,”*Proc. Of Advances In Engineering & Technology- Proceedings of Fourth International Conference on Control System and Power Electronics – CSPE*, 2015, pp110-126
2. B. MadhuKiran and Dr. B. V. Sanker Ram, "Fault detection and mitigation in cascaded MLI fed EV," *IEEE 2nd International Conference on Advances in Electrical, Electronics, Information, Communication and Bio-Informatics (AEEICB)*, Chennai, 2016, pp. 491-498
3. B. MadhuKiran and Dr. B. V. Sanker Ram, “Fault Mitigation in Five-Level Inverter Fed Induction Motor Drive Using Redundant Cell,” *Proc. of FICTA-2016 Conference, Publication in Springer AISC Series* , 2016.
4. B. MadhuKiran and Etal “Photo Voltaic System Based HERIC and H6 Transformerless Inverter Fed Induction Motor” *International Journal Of Advanced Research In Basic Engineering Sciences And Technology*, Vol. 3, Special Issue 30, March 2017
5. B. MadhuKiran and Etal “Improve the Stability of the Segmented Traction Drive by Reducing the Harmonics with Controller”, *International Journal of Innovative Technology and Exploring Engineering (IJITEE)* ISSN: 2278-3075, Volume-9 Issue-3S2, January 2020

### **LIST OF WORKSHOPS/EVENTS ORGANIZED:**

A student paper contest during GECFEST-'19

### **LIST OF WORKSHOPS /CONFERENCES /SEMINARS ATTENDED:**

1. A one-week Faculty Development Programme (FDP) on “*Applied Research on Renewable Energy Sources and Micro grids*” organized by Department of Electrical and Electronics Engineering, Gudlavalleru Engineering College from 18-11-2019 to 23-11-2019.
2. A one week Faculty Development Programme (FDP) on “*Recent Trends In Power Electronics In Smart Grid, Electrical Vehicles and Renewable Energy*” during 17/06/2019 to 22/06/2019 at NIT,WARANGAL.
3. A five day continuing education programme on “*Advanced Technologies in power Engineering*” during 17/12/2018 to 21/12/2018 at NIT,WARANGAL.
4. A one week Faculty Development Programme (FDP) on “*Application of Artificial Intelligence and Soft Computing Techniques to Electrical Engineering*” organized by Gudlavalleru Engineering College from 12-11-2018 to 17-11-2018.

## **LIST OF ONLINE FDPs /WORK SHOPS ATTENDED:**

1. A one-week AICTE sponsored Short Term Training Program on “*Automation and Intelligent Control of Electrical Systems – Phase-I*” organized by Department of Electrical and Electronics Engineering, Gudlavalleru Engineering College from 03-08-2020 to 08-08-2020.
2. A one-week National Level Online Faculty Development Program on “*Cyber Security*” organized by Departments of CSE & IT of Gudlavalleru Engineering College in Association with CyberPsy from 22-07-2020 to 26-07-2020.
3. A one-week online Faculty Development Program on “*Real Time Hardware in the Loop (HIL) Simulation for Power Electronics & Power Systems*” organized by Rajkiya Engineering College, Mainpuri in association with OPAL-RT Technologies & IEEE STB REC Mainpuri from 22-06-2020 to 26-06-2020.
4. A one-week online Faculty Development Program on “*Applied Research in Electric Vehicle Technologies*” organized by Department of Electrical & Electronics Engineering, Gudlavalleru Engineering College, Gudlavalleru from 15-06-2020 to 20-06-2020.
5. A two-day online Faculty Development Program On “*MATLAB and Simulink in Engineering Education*” organized by Andhra Pradesh State Skill Development Corporation (APSSDC) in collaboration with Capricot and Mathworks from 10-06-2020 to 11-06-2020.
6. A one-week National Level online faculty development program on “*Online Teaching-Learning Processes using ICT Tools for Education 4.0*” organized by St. Vincent Pallotti College of Engineering & Technology, Nagpur in association with Computer Society of India from 08-06-2020 to 13-06-2020.
7. A One Week Online Faculty Development Program on “*Recent Advances in Electrical Engineering*” -from 22nd to 27th June - 2020 , Organized by the Department of Electrical and Electronics Engineering, Bharat Institute of Engineering and Technology (BIET).Hyderabad
8. A 5-Day-National Level Online Faculty Development Program on “*Artificial Intelligence*” from 22nd May to 26th May 2020 organized by Department of CSE & IT, BVRIT College of engineering for women, Hyderabad in association with NYCI & Brainovision Solutions India Pvt. Ltd

9. A five day online Faculty Development Program on “*Recent Innovations And Technologies In Electrical Vehicles*” from 8/6/2020 to 12/06/2020 , Organized by the Department of Electrical and Electronics Engineering, GATES Institute of Technology ,Ananthapuram.

10. A five day online Faculty Development Program on “*Electrical Power Grid Modernization Trends, Challenges And Opportunities*” from 9/6/2020 to 13/06/2020 , Organized by the Department of Electrical and Electronics Engineering, KITS,Guntur.

11. A One Week Online Faculty Development Program on “*Recent challanges in Electrical Engineering*” (RCEE)-2020 from 18 May 2020 to 23 May 2020 , Organized by the Department of Electrical and Electronics Engineering, Ramachandra College Of Engineering, Eluru.

12. A One Week Online Faculty Development Program on “*Emerging trends and challanges in Electrical Engineering*” from 22 June 2020 to 27 June 2020 , Organized by the Department of Electrical and Electronics Engineering, Vaageswari College Of Engineering, Karimnagar.

13. A One Week National Level Online Faculty Development Programme on “*Recent Advances In Electrical Engineering (RAEE-2020)*” During 03-06-2020 to 07-06-2020, Organized by the Department of Electrical & Electronics Engineering, VEMU Institute of Technology, P.Kothakota, Chittoor(Dt), A.P.

14. A five day online Faculty Development Program on “*Recent Trends In Electrical Engineering*” from 8/6/2020 to 12/06/2020 , Organized by the Department of Electrical and Electronics Engineering, Vishnu institute of technology, Bhimavaram.

15. One Week International FDP on “*Renewable Energy Application in Smart Grid, Micro Grid and EVs (REASGMGEV-2020)*” organized by Department of Electrical & Electronics Engineering of GMR Institute of Technology, Rajam, during July 13 - 17, 2020

16. A Five Day Faculty Development Programme (TEQIP-III sponsored) on “*Power Electronic Applications to Renewable energy systems and Energy storage systems*” held from July 06-10, 2020. organized by Department of Electrical & Electronics Engineering, The National Institute Of Engineering, Mysuru.

17. A 5-Day Online Faculty Development Programme on “*Power Electronic Converters & It’s Real Time Applications*”, Organized by the Department of Electrical and Electronics Engineering, Sri Vasavi Engineering College (Autonomous), Andhra Pradesh, held during 21st - 25th July 2020.

18. A One Week Online Faculty Development Program on “*Recent Trends In Microgrid Technologies*” from 06 July 2020 to 11 July 2020 , Organized by the Department of Electrical and Electronics Engineering, Vignan Institute Of Technology and Science, Hyderabad.

19. A One Week Online Workshop on “*Introduction To PLECS Tools For Power Electronics Applications*” fom 02 July 2020 to 06 July 2020 , Organized by the Department of Electrical and

Electronics Engineering , VRSEC ,Vijayawada in association with PLEXIM, Switzerland and sponsored by AICTE –Margadarshan Scheme.

20.A Five - Day Online Faculty Development Programme on “*Micro Grid: Fundamentals, Control and Stability Aspects*” organized by Department of Electrical and Electronics Engineering in Association with IEEE PELS chapter of G. Pulla Reddy Engineering College(Autonomous) - Kurnool from 03rd-07th August 2020.

21. A Six Days AICTE Sponsored ShortTerm Training Programme on “*Soft Computing Techniques in Engineering Applications*”organized by Department of Electronics And Communication Engineering, Syed Ammal Engineering College, Ramanathapuram during 20.07.2020 - 25.07.2020.

#### **LIST OF ONLINE WEBINARS ATTENDED:**

1. An online Webinar on “*PQ Monitoring for Harmonics and KVAH Control*” organized by PQ Cell Department of Electrical Engineering, AISSMS Institute of Information Technology on 22/5/2020

2. An online webinar on “*Electrical mobility –engineering and technology*”organized by Department of Electrical and Electronics Engineering ,J.B Institute of Engineering and Technology, Hyderabad on 22-05-2020

3.A Webinar on “*Virtual Classroom Management using Microsoft Teams*”, an online training program on 11/05/2020 organized by LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING (AUTONOMOUS),Mylavaram.

4.An online webinar on “*Impact of COVID in Engineering Education & Way Forward*” organized by Indian Society for Technical Education (ISTE) chapter, Gudlavalleru Engineering College, Gudlavalleru on 09-06-2020.

5.A National Level Webinar on “*Intellectual Property Rights & Patents - A View*”organized by IQAC, Gudlavalleru Engineering College, Gudlavalleru held during 10 - 12 August 2020.

## **CERTIFICATIONS:**

NPTEL CERTIFICATION COURSES ON

ELECTRICAL DISTRIBUTION SYSTEM ANALYSIS,  
POWER SYSTEM ENGINEERING,  
ADVANCES IN UHV AC TRANSMISSION & DISTRIBUTION

Circuit Simulation Completed Under Esim Project By IIT, Bombay

## **E-LEARNING PROGRAMMES:**

COMPLETED E-LEARNING PROGRAMMES OFFERED BY TATA STEEL ON  
INDUCTION MOTORS AND TRANSFORMERS

## **MEMBERSHIP IN PROFESSIONAL BODIES: 04**

- Member of ISSE
- Member of IAENG
- AIE
- LMISTE

**CONSULTANCY ACTIVITIES:** Nil

**GRANTS FETCHED:** NIL

## **INTERACTION WITH PROFESSIONAL INSTITUTIONS:**

- Research Gate