



ಜಿ. ಎಂ. ವಿಶ್ವವಿದ್ಯಾಲಯ

GM UNIVERSITY

P. B. Road, Davanagere – 577 006 KARNATAKA | INDIA



Contact

Email:

marulasiddappahb.fet.se.eee@gmu.ac.in

Phone: 9986819560

Websites

Orcid Id: 0000-0001-7558-3579

Scopus Id: 57222757475

Vidwan id: 263124

Publons: GOG-9084-2022

Google scholar id:

<https://scholar.google.com/citations?hl=en&user=zyxsQpAAAAAJ>

Dr. Marulasiddappa H B

Associate Professor and HOD in EEE

Faculty

Faculty of Engineering and Technology

School / Program

School of Engineering/

B.Tech. in Electrical and Electronics Engineering

Faculty Introduction

I am Dr. Marulasiddappa H. B., working as an Associate Professor and Head in the Department of Electrical and Electronics Engineering at GM University, Davanagere. My vision is to contribute to academic excellence by advancing knowledge in my field and fostering meaningful collaborations. I am also serving as the IEEE Student Counselor at GM University, Davanagere. I am Passionate about writing poetry. Presented my poetry at Jilla Kannada Sahitya Parishath.

Qualifications

Ph.D. (EEE)

Jain University, Bangalore, 2024

M. Tech. (Power Electronics)

BMSCE Bangalore

VTU, Karnataka, 2011

BE (EEE)

Kuvempu University, Davanagere, 2005

Experience

Teaching – 17 Years

- 6 months at UBDTCE Davanagere
- 2.2 years at STJIT Ranebennur
- 5 years at PESITM, Shivamogga
- 9.8 years at JIT Davanagere
- From March 2025 to present at GM University Davanagere

Research

- Design and Development of an Intelligent Controller based DTC for PMSM Drives in an Electric Vehicle

Training Program Attended

- One-week long term training” Recent trends and challenges on integration of power converters with Electrical vehicles. CMRIT, Bengaluru, 20th Feb to 26th Feb,2023.



ಜಿ. ಎಂ. ವಿಶ್ವವಿದ್ಯಾಲಯ

GM UNIVERSITY

P. B. Road, Davanagere – 577 006 KARNATAKA | INDIA

- One month EV Design Internship, NITK Surathkal, 10th May 2023-10th June 2023.
- Two week short term course “Research Methodology, JNNCE, Shimoga, 15-24th, January 2013.

Research Interest

- Power Electronics and Drives
- Electrical Vehicle Technology

Publication / Patents

- Ph.D. Dissertation: Design and Development of an Intelligent Controller based DTC for PMSM Drives in an Electric Vehicle
- **International Conference Papers: 02**
 - Marulasiddappa, H. B., & Pushpa Rajesh, V. (2023, September). Direct torque control-based jelly fish algorithm for torque ripple reduction in permanent magnet synchronous motor. In 2023 International Conference on Network, Multimedia and Information Technology (NMITCON) (pp. 1-6). IEEE.
 - Marulasiddappa, H. B., and V. Pushpa Rajesh. "Review on different control techniques for induction motor drive in electric vehicle." In IOP Conference Series: Materials Science and Engineering, vol. 1055, no. 1, p. 012142. IOP Publishing, 2021. DOI 10.1088/1757-899X/1055/1/012142
- **International Journal Papers: 09**
 - Rudresha Sogilu Jayappa, Marulasiddappa Hallikeri Basappa, Kirankumar Gama Ramaiah, Gopinath Harsha Rajappa “Effects of integration of distributed generation on reliability in distribution system” International Journal of Power Electronics and Drive Systems (IJPEDS) Vol. 15, No. 1, March 2024, pp. 498~505, ISSN: 2088-8694, DOI: 10.11591/ijped.v15.i1.pp498-505
 - Hallikeri Basappa Marulasiddappa, Viswanathan Pushparajesh “Direct torque control of electric vehicle drives using hybrid techniques“ International Journal of Electrical and Computer Engineering (IJECE) Vol. 13, No. 5, October 2023, pp. 5026~5034 ISSN: 2088-8708, DOI: 10.11591/ijece.v13i5.pp5026-5034 (SCOPUS:Q2)
 - Basappa, Marulasiddappa Hallikeri, and Pushparajesh Viswanathan. "Direct Torque Control for Permanent Magnet Synchronous Motor Using Golden Eagle Optimized ANFIS." International Journal of Intelligent Engineering and Systems, Vol. 15, No. 4, 2022, pp. 499~508. ISSN: 2185-3118 DOI: 10.22266/ijies.2022.0831.45 (SCOPUS:Q3)
 - Basappa, Marulasiddappa Hallikeri, and Pushparajesh Viswanathan. "ANFIS based Direct Torque Control of PMSM Motor for Speed and Torque Regulation." Indonesian Journal of Electrical Engineering and Informatics (IJEI) Vol. 10, No. 3, September 2022, pp. 549~558 ISSN: 2089-3272, DOI: 10.52549/ijeie.v10i3.3775 (SCOPUS:Q4)
 - Basappa, M. H., & Viswanathan, P. (2022). Various control methods of permanent magnet synchronous motor drives in electric vehicle: a technical review. TELKOMNIKA (Telecommunication Computing Electronics and Control), 20(6), 1225-1229. (SCOPUS:Q3)
 - Pushparajesh, V., B. M. Nandish, and H. B. Marulasiddappa. "Hybrid intelligent controller based torque ripple minimization in



ಜಿ. ಎಂ. ವಿಶ್ವವಿದ್ಯಾಲಯ

GM UNIVERSITY

P. B. Road, Davanagere – 577 006 KARNATAKA | INDIA

switched reluctance motor drive." Bulletin of Electrical Engineering and Informatics 10, no. 3 (2021): 1193-1203. DOI: <https://doi.org/10.11591/eei.v10i3.3039>

- Pushparajesh, V., B. M. Nandish, and H. B. Marulasiddappa. "Torque ripple minimization in switched reluctance motor using ANFIS controller." 2021, WSEAS Transactions on Systems and Control 16 (2021): 171-182
- Shivakumar, L. N., Kumar, G. K., & Marulasiddappa, H. B. (2014). Implementation of Network Reconfiguration Technique for Loss Minimization on a Standard 16 Bus Distribution System. International journal of Soft Computing and Engineering (JJSCE), 3(6), 154-157.
- Kiran Kumar, G. R., Shivakumar, L. N., & Marulasiddappa, H. B. Precision Motion Control with Variable Speed AC Drives Using PLC.

Professional Membership

- IEEE member- 100582626

Awards & Recognitions

- Received Best Paper award at International Conference ICEI-2022

Administrative Responsibilities

- Department Level:
 - Head of the Department
- University Level
 - IEEE GM University student Branch Counselor
 - GM University Sound System maintenance
 - Green and Energy Audit committee member

Workshops / FDPs / Seminars Attended

- Leadership Training Program Organized by GMU Davanagere, 2025.
- Five-day FDP on Recent advancements in electric Vehicle technology, Ballari Institute of Technology & Management Bellari, 24th - 28th July 2023.
- Three-day FDP on Outcome based education and road map, Jain Institute of technology, Davanagere, 5th-7th Jan 2022.
- Four-day FDP on Application of Power electronics in Smart grid, Renewable energy resource and Industrial drives, PESITM, Shivamogga, 12th -15th, September 2022.
- Five-day Workshop on NBA, PESITM, Shivamogga, 12th -15th, September 2022.
- Five-day Workshop on NBA, New horizon college of engineering, Bengaluru, 28th Jan 2020-01st Feb 2020.
- Skill Development Programme, JAIN Deemed to be University, Bengaluru, 14th, 16th and 19th September 2020.
- VFD Basics, latest and future YASKAWA VFD'S, i³ Mechatronics and Harmonics, JAIN Deemed to be University, Bengaluru, 16th, May 2020.



ಜಿ. ಎಂ. ವಿಶ್ವವಿದ್ಯಾಲಯ

GM UNIVERSITY

P. B. Road, Davanagere – 577 006 KARNATAKA | INDIA

- Three-day FDP on research methodology and LINUX Alvas Institute of Technology, Moodbidare, 23-25th of January, 2018.
- Two-week Workshop on Signals & Systems, JNNCE, Shimoga, 2nd-12th, January 2014
- One week FDP on “MISSION 10X” By Wipro, PESITM, Shimoga, 2011.
- Workshop on “Advanced Electrical power systems & Artificial Intelligence Techniques” BIET, Davanagere, 11th&12th, Feb 2011.

Workshops / FDPs / Seminars Organized

- National Conference “NCSEEE-2025” Date: 8th Aug 2025 Organised by: Department of EEE & ECE, GM University
- International Internship program in association with IIMSTC Date: 3rd October 2024 Organised by: JIT Davanagere
- Orientation program on “The Impact of Research and Development on the Education System” Date: 8th June 2024 Organised by: Department of Electrical & Electronics Engineering, JIT Davanagere
- Five-day FDP on “Ability Enhancement Course” Date: 13/12/2023 to 17/12/2023 Organised by: Department of Electrical & Electronics Engineering, JIT Davanagere
- International Conference ICEI-2022 Date: 3rd, June 2022 Organised by: Department of Electrical & Electronics Engineering, JIT Davanagere

Projects Guided

- UG Projects: 22

Funded Projects / Grants Received

Received project fund from KSCST for “Arduino based Train Engine Monitoring System. Amount Sanctioned Rs. 4,000/-, AY - 2024-2025

Any Other Contributions

Session chair for IEEE conference