

Curriculum Vitae

Dr. Murli Manohar

Assistant Professor
Department of Electrical Engineering
Birsa Institute of Technology, Sindri
Dhanbad, Jharkhand, India
Phone: (+91) 8051784596, 8210436918
Email: murlimanohar2012@gmail.com



I. PROFESSIONAL/ INDUSTRY/ RESEARCH EXPERIENCE:

S. No.	Teaching/ Research	Name & address of employer	Post held	From	To
1.	Research	Indian Institute of Technology (ISM) Dhanbad, Jharkhand under DST (SERB) Sponsored Research Project	Junior Research Fellow	23/12/2020	14/02/2022
2.	Teaching	BIT Sindri, Dhanbad, Jharkhand-828123	Assistant Professor	30/12/2022	Till now

II. EDUCATIONAL QUALIFICATION:

Exam Passed	Specilization	Institute	Board/University	Passing Year	% Marks
Ph.D	Engineering	Indian Institute of Technology (ISM), Dhanbad	Indian Institute of Technology (ISM), Dhanbad	2022	N/A
M.Tech	Power System	Indian Institute of Technology (ISM), Dhanbad	Indian Institute of Technology (ISM), Dhanbad	2015	80.90%
B.E.	Electrical & Electronics Engineering	RKDF Institute of Science and Technology, Bhopal	Rajiv Gandhi Proudयोगiki Vishwavidyalaya, Bhopal	2012	76.19%

III. PUBLICATIONS

(a) Paper published in International Journals: 03

S. No.	Title of Paper	Author(s)	Name of the Journal	Vol., No., Pages	Year
1.	A resilient current sensor fault tolerant strategy for vector-controlled induction motor drive	S. Das and M. Manohar	<i>IEEE Trans. Emerg. Sel. Topics Power Electron</i>	Vol. 11, No. 4, 2023, pp. 4313 - 4320	2023
2.	Direct torque controlled induction motor drive using modified five-level torque controller for reduction in torque ripple	M. Manohar and S. Das	<i>IET Power Electronics</i>	Vol. 12, No. 4, 2018, pp. 1885 – 1892	July 2020
3.	Current sensor fault-tolerant control for direct torque control of induction motor drive using flux-linkage observer	M. Manohar and S. Das	<i>IEEE Transactions on Industrial Informatics</i>	vol. 13, no. 6, pp. 2824 - 2833	Dec. 2017

(b) Paper published in International Conference: 05

S. No.	Title of Paper	Author(s)	Name of the Conference	Year
1.	Current sensor fault-tolerant control of induction motor driven electric vehicle using flux-linkage observer	M. Manohar and S. Das	<i>IEEE Transportation Electrification Conference & Expo (ITEC), Chicago, USA</i>	2020

2.	A robust current sensor fault detection scheme for sensorless induction motor drive,"	M. Manohar and S. Das, R. Kumar	<i>IEEE PES Asia-Pacific Power and Energy Engineering Conference (APPEEC'2017), Bangalore, India</i>	2017
3.	Adaptive Quadratic Interpolation for Loss Minimization of Direct Torque Controlled Induction Motor Driven Electric Vehicle	S. Das, A. Pal, and M. Manohar	<i>IEEE 15th International Conference on Industrial Informatics (INDIN'2017), Emden, Germany</i>	2017
4.	Sensorless control of grid-connected doubly-fed induction machine drive using model reference adaptive controller	R. Kumar, S. Das and M. Manohar	<i>2016 IEEE Uttar Pradesh Section International Conference on Electrical, Computer and Electronics Engineering (UPCON' 2016), Varanasi, India</i>	2016
5.	Combined Speed and Rotor Resistance Estimation for Speed Sensorless Induction Motor Drive Using Reactive Power Based MRAS	M. Manohar and S. Das	<i>Michael Faraday IET International Summit (MFIS 2015), Kolkata, India</i>	2015

(c) Patent Grant/Published

S. No.	Patent Title	Inventor(s)	Patent No.	Year
1.	IOT Controlled Charger for Electric Vehicles	Dr. M. Manohar , Dr. A. Pal, Dr. K. Kiran	403948-001	2024
2.	Energy Harvesting Device for Vehicle Motor Drive System	Dr. A. Pal, Dr. K. Kiran, Dr. M. Manohar	407338-001	2024

IV. WORKSHOP/SHORT TERM COURSE ATTENDED:

S. No.	Name of Course	Department & Institute	Platform	Duration	Year
1.	Propulsion Systems for Electrical and Hybrid Vehicle	Department of Mining Machinery Engineering, IIT (ISM) Dhanbad	Online	Two-days	2021
2.	FPGA Controllers for Electrical Power Applications	Visvesvaraya National Institute of Technology	Online	One Week	2021
3.	Development of Effective Communication and Presentation and Communication Skill	Start Core Technology	Online	One-day	2020
4.	Strengthening Career Prospects with Communication & Presentation Skill	Department of Humanities and Social Sciences, IIT (ISM) Dhanbad	Offline	Two-days	2019
5.	SiC Devices Enabled Power Converters Applications – Opportunities and Challenges	Department of Electrical Engineering, IIT Kharagpur	Offline	One Week	2018
6.	How to do a Good PhD	University of Calcutta, Kolkata	Offline	2 days	2015

V. ADMINISTRATIVE RESPONSIBILITIES HELD

S. No.	Position held/ Responsibility	Level	Institute	From	To
1.	PhD Co-Coordinator	Department	BIT Sindri	15 th August 2023	Till date
2.	Internship/ Industrial Training Coordinator	Department	BIT Sindri	15 th May 2023	Till date
3.	Feedback Coordinator	Department	BIT Sindri	15 th May 2023	Till date

4.	Virtual Class Coordinator	Department	BIT Sindri	15 th May 2023	Till date
5.	Professor In-charge of “Electrical Drives Lab”	Department	BIT Sindri	15 th May 2023	Till date
6.	Professor In-charge of “Project Lab”	Department	BIT Sindri	15 th May 2023	Till date
7.	Add. Professor In-charge of “Power Electronics Lab”	Department	BIT Sindri	15 th May 2023	Till date
8.	Social-Media Coordinator, IIC 5.0	Institute	BIT Sindri	15 th January 2023	30 th August 2023
9.	Convener, IIC 6.0	Institute	BIT Sindri	1 st September	Till date
10.	Convener, KAPILA Committee	Institute	BIT Sindri	1 st September	Till date
11.	Member, Guest House Committee	Institute	BIT Sindri	1 st September	Till date

VI. RESEARCH INTEREST

Control of electric motor drives, Transportation & electrification, Design of power electronics converters

VII. SOFTWARE SKILLS

Document Creation: Microsoft Office, Visio & LaTeX;

Simulation Tool: MATLAB/Simulation;

Circuit Design: PSPICE, Proteus & Altium;

Hardware Tools: DS 1202 MicroLabBox, dSPACE-1103, dSPACE-1104 & FPGA

Programming Language: VHDL, Assembly Language

Declaration:

I hereby declare that the information provided above is correct to the best of my knowledge and I bear the responsibility for the correctness of the particulars mentioned above.

Date: 25/06/2024

Place: Dhanbad, Jharkhand

(Murli Manohar)