

## Curriculum Vitae

**Dr. Hari Charan Verma**

Assistant Professor  
Department of Electrical Engineering  
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### I. PROFESSIONAL/ INDUSTRY/ RESEARCH EXPERIENCE:

S. No.	Teaching/ Research	Name & address of employer	Post held	From	To
1.	Teaching	Birsa Institute of Technology, Sindri, Dhanbad, Jharkhand	Assistant professor	30/12/2022	Till Date
2.	Teaching	Muzaffarpur Institute of Technology, Muzaffarpur, Bihar	Assistant professor	05/01/2018	29/12/2022
3.	Research	Indian Institute of Technology (ISM) Dhanbad, Jharkhand	Senior Research Fellow	01/09/2017	31/12/2018
4.	Research	Indian Institute of Technology (ISM) Dhanbad, Jharkhand	Junior Research Fellow	01/09/2015	31/09/2017

### II. EDUCATIONAL QUALIFICATION:

Exam Passed	Specilization	School/College	Board/University	Passing Year	% Marks
Ph.D	Engineering	Indian Institute of Technology (ISM), Dhanbad	Indian Institute of Technology (ISM), Dhanbad	2023	N/A
M.E	Power System	Delhi Technological University, Delhi	Delhi Technological University, Delhi	2015	62.60%
B.Tech	Electrical Engineering	L.N.C.T, Bhopal	Rajiv Gandhi Proudhyogiki vishwavidyalaya	2012	81.09%
ISC	Science	D.A.V Public School, Dhori	CBSE, Delhi	2006	62.60%
ICSE	-	S. S. High school Bhendra, Bokaro	Jharkhand Academic Council, Ranchi	2004	59.6%

### III. PUBLICATIONS

#### (a) Paper published in International Journals: 04

S. No.	Title of Paper	Author(s)	Name of the Journal	Vol. & Year	Pages
1.	Dielectric frequency response at different voltage levels of mineral oil-based silica nanofluids	H. C. Verma and A. Baral	Ain Shams Engineering Journal, (Elsevier)	(Article in Press) 2022	1-10
2.	Estimation of Paper-Moisture in Transformer Insulation Employing Dielectric Spectroscopy Data	A. Kumar, H. C. Verma, A. Baral, A.K. Pradhan, S. Chakravorti	IET Science, Measurement & Technology	Vol. 12, No. 4, 2018	536-541

3.	A Method to Estimate Activation Energy of Power Transformer Insulation Using Time Domain Spectroscopy Data	<b>H. C. Verma, A. Baral, A.K. Pradhan, S. Chakravorti</b>	IEEE Transactions on Dielectric and Electrical Insulation	Vol. 24, No. 5, 2017	3245-3253
4.	Condition Assessment of Various Regions within Non-uniformly aged Cellulosic Insulation of Power Transformer using Modified Debye Model	<b>H. C. Verma, A. Baral, A.K. Pradhan, S. Chakravorti</b>	IET Science, Measurement & Technology	Vol. 11, No. 7, 2017	939-947

**(b) Paper published in International Conference: 04**

S. No.	Title of Paper	Author(s)	Name of the Conference	Year
1.	Influence of Volume Concentration on Breakdown Strength of Synthetic Ester Based Transformer Nanofluid Employing SiO <sub>2</sub> Nanoparticle	S. Chaudhary, <b>H. C. Verma</b> , A. Baral, S. Chakravorti	IEEE's 3 <sup>rd</sup> International Conference for Convergence in Technology (I2CT) Pune	2018
2.	Development of a Low-Cost Portable Frequency Domain Spectroscopy Data Measurement Module for Oil-paper Insulation	M. Malviya, <b>H. C. Verma</b> , A. Baral, S. Chakravorti	IEEE 7 <sup>th</sup> International Conference on Power Systems (ICPS), COEP Pune, India	2017
3.	A Novel Method to Predict Moisture in Cellulosic Insulation of Power Transformer with Improved Accuracy Using Time Domain Spectroscopy Data	R. Goel, <b>H. C. Verma</b> , A. Baral, S. Chakravorti	IEEE 6 <sup>th</sup> International Conference on Computer Applications in Electrical Engineering- Recent Advances (CERA), IIT Roorkee, India	2017
4.	Comparison of different methods available for evaluating remaining life of OIP insulation used in Power Transformer	A. Kumari, <b>H. C. Verma</b> , A. Baral, S. Chakravorti	IEEE 6 <sup>th</sup> International Conference on Computer Applications in Electrical Engineering- Recent Advances (CERA), IIT Roorkee, India	2017

**IV. PATENTS APPLIED**

S. No.	Title of Invention	Inventor(s)	Application No.	Date
1.	Hydrogen Fuel Generator with Enhanced Safety for Internal Combustion Engine	Anish Kumar Karn, Dr. Akash Priyadarshee, <b>Mr. Hari Charan Verma</b> , Mr. Vijay Kumar, Mr. Shubham Sharma	202031002990	23/01/2020

**V. WORKSHOP ORGANISED/RESOURCE PERSON:**

S. No.	Organised/ Delivered	Name of Course	Department & Institute	Duration	Year
1.	Convener	Hands-on Training on MATLAB Phase-II	Electrical Engineering Department, MIT, Muzaffarpur	One Week	2020
2.	Convener	Hands-on Training on MATLAB	Electrical Engineering Department, MIT, Muzaffarpur	One Week	2020
3.	Resource Person	Hands-on Training on MATLAB	Electrical Engineering Department, MIT, Muzaffarpur	One Week	2020

4.	Resource Person	(Special sessions on Linear Control Theory) Laboratory Training of Teachers of TEQIP-III Institutions of Bihar	MIT, Muzaffarpur	3 days	2019
5.	Resource Person	(Special sessions on Protection of Power Apparatus and system) Laboratory Training of Teachers of TEQIP-III Institutions of Bihar	MIT, Muzaffarpur	3 days	2019
6.	Convener	Emerging Trends in Renewable energy	Electrical Engineering Department, MIT, Muzaffarpur	One Week	2019
7.	Resource Person	Emerging Trends in Renewable energy	Electrical Engineering Department, MIT, Muzaffarpur	One Week	2019
8.	Jury member	Skill Competition (Yuva Kaushal Mahotsav)	Bihar Skill Development Mission, Labour Resources Department Govt of Bihar	3 days	2019

**VI. ADMINISTRATIVE RESPONSIBILITIES HELD/CONTINUING**

S. No.	Position held/ Responsibility	Level	Institute	From	To
1.	Substation In-charge	Institute	BIT, Sindri	02/06/2023	Till date
2.	Hostel Warden (Old PG)	Institute	BIT, Sindri	01/06//2023	Till date
3.	Professor In-charge of “Power system Lab and Additional Professor In-charge of Power system protection & High Voltage Lab”	Department	BIT, Sindri	07/06//2023	Till date
4.	Prof. In-charge Electrical Engg. Society & Departmental Newsletter	Department	BIT, Sindri	15/06//2023	Till date
5.	Training and Placement Coordinator	Department	BIT, Sindri	15/06//2023	Till date
6.	NPTEL, MOOCs, SWAYAM PRABHA, FOSSEE and Startup Coordinator	Department	BIT, Sindri	15/06//2023	Till date
7.	Professional Bodies and Technical Societies Co-Coordinator	Department	BIT, Sindri	15/06//2023	Till date
8.	NBA Coordinator	Department	MIT, Muzaffarpur	06/03/2018	29/12/2022
9.	Training and Placement Coordinator	Department	MIT, Muzaffarpur	06/03/2018	29/12/2022
10.	Assistant Hostel Warden	Institute	MIT, Muzaffarpur	06/03/2018	29/12/2022
11.	Professor Incharge of “Power system Lab and Linear Control Theory Lab”	Department	MIT, Muzaffarpur	02/05/2018	29/12/2022
12.	Member of “Junoon Club”	Institute	MIT, Muzaffarpur	03/12/2018	29/12/2022
13.	NPTEL Coordinator	Department	MIT, Muzaffarpur	06/03/2018	29/12/2022
14.	Member of “Industry Readiness”	Department	MIT, Muzaffarpur	17/01/2020	29/12/2022

15.	Committee member to review the university syllabus for B.Tech Electrical Engineering	University	Aryabhata Knowledge university	2019	2020
16.	Mentor in SIH 2022	Institute	MIT, Muzaffarpur	2021	2022

## VII. MEMBERSHIP/ FELLOWSHIP OF PROFESSIONAL SOCIETIES

- [1] Reviewed Papers for “**IET Science, Measurement & Technology 2020**”.
- [2] Reviewed Papers for “**23<sup>rd</sup> IEEE International Conference on Environment and Electrical Engineering & 7<sup>th</sup> Industrial and Commercial Power Systems Conference Europe**” organize in Madrid, Spain, 2023.
- [3] Reviewed Papers for “**22<sup>nd</sup> IEEE International Conference on Environment and Electrical Engineering & 6<sup>th</sup> Industrial and Commercial Power Systems Conference Europe**” organize in Prague, Czech Republic, 2022.
- [4] Reviewed Papers for “**2020 IEEE International Conference on Environment and Electrical Engineering Madrid**” organize in Madrid, Spain, 2020.
- [5] Reviewed Papers for “**2019 IEEE Conference on Environment and Electrical Engineering and 2<sup>nd</sup> Industrial and Commercial Power Systems Europe**” organize in Genoa, Italy, 2019.
- [6] Reviewed Papers for “**IEEE 18<sup>th</sup> International Conference on Environment & Electrical Engineering and 2<sup>nd</sup> Industrial & Commercial Power Systems Europe**” organize in Palermo, Italy, 2018.

## VIII. WORKSHOP/SHORT TERM COURSE ATTENDED:

S. No.	Name of Course	Department & Institute	Platform	Duration	Year
1.	Recent Computational Strategies for Condition Monitoring of High Voltage Equipment (ReCoSCoM-HiVoE-2021)	Department of Electrical Engineering, NIT Patna	Online	One Week	2021
2.	Hands on Training on SAR Filling of NBA Accreditation	SPIU Bihar	Offline	2 days	2021
3.	Outcome Based Education (OBE) & Preparedness for NBA	SPIU Bihar	Offline	2 days	2021
4.	Smart Technologies in Energy Scenario	EE Department BBIT	Online	One Week	2020
5.	Artificial Intelligence and Its Applications	NITTTR Chandigarh, and NIT Jalandhar	Online	One Week	2020
6.	Outcome Based Education (OBE) & Preparation for NBA Accreditation	SPIU Bihar	Offline	2 days	20220
7.	Research and Technical Challenges in Energy and Power System”	Department of Electrical Engineering, Narula Institute of Technology	Online	One Week	2020
8.	Nanoscience for Engineering Applications	NITTTR Chandigarh, and NIT Jalandhar	Online	One Week	2020
9.	Electric Vehicles: News Trends and Technologies	EEED, ABES Engineering College, Ghaziabad	Online	One Week	2020
10.	Geospatial Applications in Water Resources	CED, St. Joseph’s Institute of Technology	Online	3 days	2020

11.	Outcome Based Curriculum Design	NITTTR Chandigarh	Online	One Week	2020
12.	Post Corona Era Dimensions in Education	Chetana International journal of Education, CIJE (SJIF 2020)	Online	One Week	2019
13.	Introduction to Industrial Electrical Systems	L&T-Switchgear Training Centre, Kolkata	Offline	One Week	2019
14.	Opportunities and challenges in implementation of AICTE Internship Policy	AICTE New Delhi	Offline	1 days	2019
15.	Preparation for NBA Accreditation	DCE Darbhanga, LNJPIT Chapra, IIT Patna & SPIU Bihar	Offline	3 days	2019
16.	A Comprehensive Introduction to IOT Design	IIT Bombay	Offline	One Week	2019
17.	Advanced Pedagogies: Active Learning and Digital Tools	IIT Delhi	Offline	One Week	2019
18.	Motivational Techniques for creating High performance individual/Team (For Faculties) and Personal Growth & Team Building (for Non-Teaching Staff)	MIT Muzaffarpur	Offline	3 days	2019
19.	Research Proposal Writing Workshop	IIT Patna & SPIU Bihar	Offline	3 days	2019
20.	Indian Science Congress-2019	LPU Jalandhar	Offline	One Week	2019
21.	Intellectual Property Right and patent filling	AKU Patna	Offline	1 days	2018
22.	NBA Awareness and filling of SAR	MIT Muzaffarpur	Offline	2 days	2018
23.	Hands on training on Microsoft Excel	MIT Muzaffarpur	Offline	3 days	2018
24.	Faculty Induction Program	IIT Kanpur	Offline	One Week	2018
25.	High Voltage Engineering Applications	IIT Kharagpur	Offline	One Week	2018
26.	Ultra-Wide band partial Discharge in In-Service High Voltage Equipment	IIT Kanpur	Offline	One Week	2018

#### **IX. ONLINE COURSES ATTENDED:**

**Completed 29 online courses form different platform**

- (a) Completed 2-week online course on topic “**Digital Transformation in Teaching Learning Process**” in Swayam platform powered by IIT Bombay.
- (b) Completed Total **16** online courses in Coursera Platform.
- (c) Completed Total **08** online courses in Capability development, Tata steel.

#### **X. TEACHING EXPERIENCE**

**(i) In BIT Sindri (29/12/2022 to till date)**

1. Protection of Power Apparatus & System (**UG Course**)
2. Power System-II (**UG Course**)
3. Computer Aided Power System Protection (**PG Course**)

**(ii) In MIT Muzaffarpur (05/01/2018 to 29/12/2022)**

1. Electrical Circuit Analysis (UG Course)
2. Power System (UG Course)
3. Switch gear and protection (UG Course)
4. Digital Electronics (UG Course)
5. Network Theory (UG Course)
6. Basic Electrical Engg. (UG Course)
7. Linear Control Theory (UG Course)

**XI. AREA OF SPECIALIZATION**

Power System, High Voltage Engineering, Nano-materials

**XII. COMPUTER PROFICIENCY**

Multisim, Proteus, Power Factory, Matlab, LabVIEW

**XIII. PERSONAL DETAIL**

Name : Hari Charan Verma  
Father's Name : Mr. Jai Narayan Mahto  
Mother's Name : Mrs. Shanti Devi  
Date of Birth : 05/12/1989  
Gender : Male  
Marital Status : Married  
Residential Address : Quarter No- O-21, Professor colony, BIT Campus,  
BIT Sindri, Dhanbad-828123 (Jharkhand)

**XIV. REFERENCES**

**(i) Dr. Arijit Baral**

Associate Professor  
Department of Electrical Engineering  
Indian Institute of Technology (ISM), Dhanbad,  
Jharkhand.  
E-mail: [baral\\_arijit@yahoo.com](mailto:baral_arijit@yahoo.com),  
Mobile No. : 9471192453

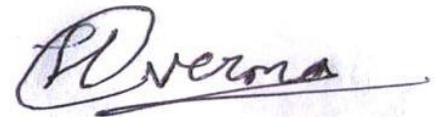
**(ii) Dr. Y N Sharma**

Associate Professor, Head of Department  
Department of Electrical Engineering,  
Muzaffarpur Institute of Technology, Muzaffarpur,  
Bihar.  
E-mail: [ynsharma@mitmuzaffarpur.org](mailto:ynsharma@mitmuzaffarpur.org)  
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**Declaration:**

I hereby assure that the entries made in this resume are correct to the best of my knowledge and belief.

Place: Dhanbad, Jharkhand



( Hari Charan Verma )