

# CURRICULUM VITAE

Dr. Biswaranjan Mishra

Assistant Professor,

Department of Electrical Engg., B.I.T Sindri, Sindri Institute,  
Dhanbad, Jharkhand, Pin-828123, India

Email: biswaranjan.ee@bitsindri.ac.in, +91-7008253656



## 1. Professional Objectives:

To be associated with progressive organization that provides an opportunity to apply my knowledge and skills in order to keep abreast with latest trends in academic field and technologies.

## 2. Qualification:

S. No	Degree (UG, PG, PhD)	Specialization	Institute/University
1	PhD.	Power System	NIT Durgapur
2	PG	Power System	NIT Durgapur
3	UG	Electrical Engg.	BPUT, Odisha

**3. Title of PhD Thesis:** “Novel Solution Approaches of Power Systems Static and Dynamic State Estimation with Optimal Placement of PMUs”

## 4. Research Interest:

Power System Static and Dynamic State Estimation, Power System Contingency & Security Analysis.

## 5. Subjects Taught:

**UG:** - B.E.E, Electrical Machine-I, Electrical Machine-II, Control Systems, Advanced Control Systems, Power Plant Engg., Power System Operation and Control, Computer Aided Power Systems, Power System-II, High Voltage Engineering.

**PG:** Power System Operation & Control, Mathematical Methods in Control, Professional Ethics

## 6. Professional Experience:

### I) Teaching Experience

Sl. No.	Position held	Name of Organization	from	to
01	Assistant Professor (On contract)	BIT Sindri, Dhanbad, Jharkhand	04 <sup>th</sup> January 2018	Till date
02	Assistant Professor	ABIT, Cuttack, Odisha	Dec 15,2005	Sept.01,2014

### II) Research Experience

Sl. No.	Position held	Name of Organization	from	to
01	Research Scholar	NIT Durgapur	Sept 05,2015	Jan 3,2018

## 7. Sponsored Project

**Title of the Project:** “Linear State Estimation based on PMU Measurements”

CRS ID: 1-5728530491

Name of PI: Biswaranjan Mishra

Co-PI: Dr. Pankaj Rai, Dr. D.K. Tanti, Dr. S.S. Thakur

Sanctioned Fund: Rs 6,53,000/-

Sanctioned Agency: CRS under TEQIP-III, Govt. of India

Duration: 2 Years ( July 2019 to 30<sup>th</sup> March 2021)

Status: Completed

## 8. Publications:

### I) International Journal

- [1] Biswaranjan Mishra, S.S. Thakur, Sourav Mallick. C. K. Panigrahi, “Optimal Placement of PMU for Fast Robust Power System Dynamic State Estimation using UKF–GBDT Technique,” *Journal of Circuits, Systems and Computers*, vol. 31, 2022. DOI:0.1142/S0218126622500682. (**SCIE Indexed**), **Impact Factor: 1.278**
- [2] Biswaranjan Mishra, M. Alam, S.Kundu, S.S. Thakur “A New Concept for Monitoring of Power Line Outages through Double Observability of buses”, *Journal of Adv. Research in Dynamical & Control Systems*, 1943-023X ,Vol.10,2018( SCOPUS Indexed)

### II) Book Chapter

- [1] Biswaranjan Mishra, P.Rai, D.K. Tanti, S.S. Thakur, “Linear State Estimation for Power Systems Based on PMU Measurements”, *Advances in Intelligent Systems and Computing*, vol 1341. Springer, Singapore, doi:10.1007/978-981-16-1510-8\_26.

### III) International Conference

- [1] V. Jha, Biswaranjan. Mishra and S. K. Vishwakarma, "Power Line Outage Identification Using PMU," *2022 IEEE 2nd International Symposium on Sustainable Energy, Signal Processing and Cyber Security (iSSSC)*, Gunupur, Odisha, India, 2022, pp. 1-6, doi: 10.1109/iSSSC56467.2022.10051400.
- [2] Biswaranjan Mishra, S. S. Thakur, S. Mallick and C. K. Panigrahi, "Optimal Placement of PMUs for Power System State Estimation," *IEEE International Conference on Sustainable Energy Technologies and Systems (ICSETS)*, 2019, pp. 188-193, doi: 10.1109/ICSETS.2019.8745327.
- [3] M. Alam, Biswaranjan Mishra and S. S. Thakur, "A New Approach of Multiple Line Outage Identification Using Phasor Measurement Unit (PMU) with Bad Data," *2018 International Conference on Current Trends towards Converging Technologies (ICCTCT)*, Coimbatore, India, 2018, pp. 1-6, doi: 10.1109/ICCTCT.2018.8551021
- [4] M. Alam, Biswaranjan Mishra and S. S. Thakur, "Assessment of the Impact of Line Outage in Modern Power System," *2018 International Conference on Current Trends towards Converging Technologies (ICCTCT)*, Coimbatore, India, 2018, pp. 1-6, doi: 10.1109/ICCTCT.2018.8550925.
- [5] Biswaranjan Mishra, V. Jaiswal, and S. S. Thakur, "Optimal placement of PMUs using Greedy Algorithm and state estimation," *IEEE 1st International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES)*, 2016, pp. 1-5, doi: 10.1109/ICPEICES.2016.7853556
- [6] Biswaranjan Mishra, S. Mallick, and S. S. Thakur, "A novel technique of state estimation for well-conditioned and ill-conditioned systems using constant observation matrix," *IEEE International Conference on Power System Technology (POWERCON)*, 2016, pp. 1-6, doi: 10.1109/POWERCON.2016.7753975.
- [7] Biswaranjan Mishra, S. Mallick, S. S. Thakur and N. Thakur, "Constant observation matrix-based power systems state estimation," *IEEE International Conference on Energy, Power and Environment: Towards Sustainable Growth (ICEPE)*, 2015, pp. 1-6, doi: 10.1109/EPETSG.2015.7510100.

### IV) National Conference

- [1] Biswaranjan Mishra, Satya Ranjan Das, "A New Algorithm for Power System Load Flow Studies", National seminar on Recent Advances in Control System Instrumentation, Vol-1, 27-31, 2013

### 9. Symposium/ Workshop/Seminar/ Attended

Sl. No.	Title of Symposium/ Workshop/Seminar/ Short – term Courses	Date	Organizing Institute
01	Faculty Induction Workshop	Feb 06-10,2018	IIT Kharagpur

02	Outcome Based Education (OBE) & Accreditation	March 16-17,2018	B.I.T Sindri
03	FDP on ANN & Deep Learning	June 11-15,2018	NIT Patna
04	GIAN Course on Computational Efficiency Enhancement Techniques in Forward & Inverse Problems	June 19-23,2018	NIT Durgapur
05	FDP on Advancement and Application of Soft Computing in Electrical System	July 13-17,2018	NIT Patna
06	Workshop on Manufacturing Automation, Robotics & Factory of Future.	October 3-7,2018	B.I.T. Sindri
07	FDP on Advanced Industrial Automation using PLC & SCADA	November 1-5,2018	B.I.T. Sindri
08	Workshop on Practical Training on Mi Power Software	November 21-22, 2017	NIT Durgapur
09	Short term course on Estimation and Filtering with Applications at from	February 20-22, 2015	NIT Rourkela
10	Short term course on Emerging Trends and Challenges of Modern Power systems (ETCMPS)	July 5 – 9 July, 2016	NIT Durgapur
11	Short term course on Methodology and Ethics in Research	September 19-23,2016	NIT Durgapur
12	Short term course on Experiments on Power Electronics	February 6-10, 2012	NITTR Kolkata
13	Short term course on Application on Modern Control System at from	August 9-13, 2010	NITTR Kolkata
14	Short term course on Application on Non-Conventional Energy in Rural Areas	September 6-10, 2010	NITTR Kolkata
15	National seminar on Wireless Communication and Mobile Computing	October 8-9,2010	ABIT,Odisha
16	Seminar on Trends in Power Electronics, Electrical Machines and Drives (TPEEMD-09)	February 26-27, 2009	NIT Durgapur
17	Seminar on Operation, Control, Stability, Power Quality issues in Modern Power Systems	March 26-27,2009	NIT Durgapur
18	Seminar on Latest Technologies in High Voltage Power Systems	March 30-31,2009	NIT Durgapur
19	Application of Power Electronics in emerging power sector	June 30-05,2008	NIST Berhampur, Odisha

### 10. Administrative Position Held:

S. No.	Position Held	From (date/month/year)
01	TEQIP MIS Coordinator	July 14, 2018
02	Departmental NBA Co-cordinator	June 5 2018
03	Member of Power System Lab Committee for procurement of Lab Equipments	April 26,2018
04	Member of Institute Start up cell	Feb,2018

**11. Members of Professional Bodies:** ISTE, IEEE

**12. Declaration**

I hereby declare that the aforementioned information is true to the best of my knowledge.

Place: Sindri, Dhanbad

(Dr. Biswaranjan Mishra)