

Faculty Profile



1. Name : Biswaranjan Mishra
2. Department : Electrical Engineering
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5. Office Address: Assistant Professor, E-64, Department of Electrical Engg. , B.I.T Sindri, Sindri Institute, Dhanbad, Jharkhand, Pin-828123, India

6. Qualification:

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

7. Area of Specialization: Load Flow studies, Power System Static and Dynamic State Estimation, Power System Contingency & Security Analysis.

8. Subjects Taught:

UG: - B.E.E, Electrical Machines, Power System Operation and Control, Computer Aided Power System, High Voltage Engineering, Power Systems-II.

PG: - Dynamics of Linear Systems

9. Professional Experience:

I) Teaching Experience:

| Sl. No. | Position held | Name of Organization | from | to |
|---------|---------------------|----------------------|--------------|--------------|
| 01 | Assistant Professor | ABIT,Cuttack,Odisha | July 25,2010 | 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 |

10. Publications:

I) International Journal:

| Sl. No. | Title of the paper | Name of the journal in which publication has been made | Vol/No. | Publication Year | Pages |
|---------|---|---|---------------------|------------------|-----------|
| 01 | 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 | 1051-1064 |

II) Book Chapter :

| Sl. No. | Title of chapter | Name Publisher | DOI | Publication Year | Pages |
|---------|---|---|------------------------------|------------------|---------|
| 01 | Linear State Estimation for Power Systems Based on PMU Measurements | Advances in Intelligent Systems and Computing, Springer | 10.1007/978-981-16-1510-8_26 | 2021 | 249-261 |

II) International Conference:

| Sl. No. | Title of the paper | Name of the Conference in which publication has been made | Vol/No. | Publication Year | Pages |
|---------|--|---|-------------------------------|------------------|-------|
| 01 | Optimal Placement of PMUs for Power System State Estimation. | IEEE International Conference on Sustainable Energy Technologies and Systems (ICSETS) | 10.1109/ICSETS.2019.8745327 | 2019 | 1-6 |
| 02 | A New Approach of Multiple Line Outage Identification Using Phasor Measurement Unit (PMU) with Bad Data | IEEE International conference on Current Trends Towards Converging Technologies | 10.1109/ICCTCT.2018.8551021 | 2018 | 1-6 |
| 03 | Assessment of Impact of Line Outage in Modern Power System | IEEE International conference on Current Trends Towards Converging Technologies | 10.1109/ICCTCT.2018.8550925 | 2018 | 1-6 |
| 04 | 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). | 10.1109/POWERCON.2016.7753975 | 2016 | 1-6 |

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|----|---|---|-------------------------------|------|-----|
| 05 | Optimal placement of PMUs using Greedy Algorithm and state estimation | IEEE International conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES) | 10.1109/ICPEICES.2016.7853556 | 2016 | 1-5 |
| 06 | Constant observation matrix based power systems state estimation | IEEE International conference on Energy, Power and Environment: Towards Sustainable Growth (ICEPE). | 10.1109/EPETSG.2015.7510100 | 2015 | 1-6 |

III) National Journal: NA

| Sl. No. | Title of the paper | Name of the journal in which publication has been made | Vol/No. | Publication Year | Pages |
|---------|--------------------|--|---------|------------------|-------|
| | | | | | |

IV) National Conference :

| Sl. No. | Title of the paper | Name of the Conference in which publication has been made | Vol/No. | Publication Year | Pages |
|---------|--|--|---------|------------------|-------|
| 01 | A New Algorithm for Power System Load Flow Studies | National seminar on Recent Advances in Control System Instrumentation, | Vol-1 | 2013 | 27-31 |

11. Conference/ Workshop/Seminar/ Organized -NA

| Sl. No. | Title of Seminar / Conferences / Short – term Courses | Name of Coordinator | Funding / Sponsoring Agency | Date of Seminar / Conferences / Short – term Courses | No. of Participants |
|---------|---|---------------------|-----------------------------|--|---------------------|
| | | | | | |

12. 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 |

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|----|--|-----------------------|------------------------|
| 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 MiPower 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 |

13. Project Experience

| S.No | Organization | Position | Description |
|------|---------------------------|----------------------------|--|
| 01 | BIT Sindri & NIT Durgapur | Principal Investigator(PI) | Title: “Linear State Estimation based on PMU Measurements” Project Budget: 6.53 Lakhs Funding Agency: AICTE under Collaborative Research Scheme (CRS) Project Allocated: 21/06/2019 |

14. Administrative Position Held:

| S. No. | Position Held | From (date/month/year) |
|--------|---|------------------------|
| | Institute NPTEL SPOC & Professor Incharge MOOCs | Jan,2019 |
| | Departmental Time Table Incharge | June,2019 |

| | | |
|----|--|---------------|
| 01 | TEQIP MIS Officer | 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 |

15. Members of Professional Bodies: ISTE, IEEE

(Biswaranjan Mishra)