

## **Brief Personal Information of Sangita Das Biswas**



**Name:** Mrs. SANGITA DAS BISWAS

**Designation:** Assistant Professor

**Department:** Electrical Engineering,

**Office:** Tripura University (A Central University),  
Suryamaninagar, Tripura (west), India, Pin-799022

**Contact:** 09436183551

**E-mail:** [sdasbiswas@tripurauniv.in](mailto:sdasbiswas@tripurauniv.in)

---

**Qualification:** M.Tech. in Electrical Engineering, University of Calcutta, West Bengal. India.

### **Subject Interest:**

- Power System
- Smart Grid and Micro Grid

### **Work Experience:**

- **Serving as an Assistant Professor** in the Department of Electrical Engineering under **Tripura University** (A Central University), Tripura, from 15-07-2010 (A.F) onwards.
- **Served as a Lecturer** in the Department of Electrical Engineering under **Tripura University** (A Central University), **Tripura**, from 24-08-2005 to 15-07-2010 (F.N.).
- **Served as a Lecturer** in the Department of Electrical Engineering of **Gurunanak Institute of Technology, Kolkata**, under West Bengal University of Technology, from 01-07-2004 to 31-05-2005.
- **Served as a Lecturer** in the Department of Electrical Engineering of **IMPS College of Engineering & Technology, Malda**, under West Bengal University of Technology, from 01-08-2003 to 31-12-2003.

### **Book Chapters:**

All Authors	Title of the Chapter	Book Editors	Name of the Book	Publishers	Year	ISSN - ISBN	Page No.
Tushar Kanti Das, Rajesh Debnath, Sangita Das Biswas	Modeling and Implementation of Advanced Electronic Circuit Breaker Technique for Protection	Dr. Jyotsna K. Mandal, Dr. Somnath Mukhopadhyay, Dr. Alak Roy	The Internet of Things	Springer, Singapore <a href="https://link.springer.com/book/10.1007/978-981-15-6198-6">https://link.springer.com/book/10.1007/978-981-15-6198-6</a>	4 <sup>th</sup> August, 2020	<b>Online</b> ISSN2367-3389 <b>Online</b> ISBN978-981-15-6198-6	Pages 15-26

## List of International/ National Journals/ Conferences etc.:

1. T. K. Das, R. Debnath, **S. Das Biswas**, “**Modeling and Implementation of Advanced Electronic Circuit Breaker Technique for Protection**”, International Conference on Computer Communication and Internet of Things 2020 (ICCCIoT 2020) at Tripura University (A Central University), Tripura, India during 3<sup>rd</sup>-4<sup>th</sup> February, 2020 and Sponsored by North Eastern Council, Government of India.
2. S. Debbarma, P. Debbarma, **S. Das Biswas**, “**Modelling and Simulation of a two area system using a Phasor Measurement Unit**”, International Journal of Computer Sciences and Engineering (IJCSSE), Vol.-7, Issue-4, pages-230-237, April-2019.
3. B.B. Jena, **S. Das Biswas**, S. Bhattacharjee, M. S. Ali, “**Modelling, Simulation of Solar Pumping System using Hybrid Energy for Remote and Hilly Areas of North East, India**”, International Conference on Chemistry and Environmental Sustainability (ICCES-2019) at Mizoram University, Aizawl, India, during 19-22 February, 2019.
4. S. Das, P. Debnath, T. K. Das, R. Debnath, **S. Das Biswas**, “**Modelling, Simulation and Analysis of DC & AC Outputs using Hybrid PV and Wind Power System for Remote and Hilly Areas**”, International Journal for Research in Applied Science & Engineering Technology (IJRASET), Vol. 6, Issue VI, pages 1719-1726, June- 2018.
5. **S. Das Biswas**, M. Saha, P. Debbarma, “**A New Multilevel Inverter Topology to Drive an Induction Motor System**”, International Journal of Innovative Research in Science, Engineering and Technology, Vol.5, Issue 4, pages 5814-5819, April-2016.
6. **S. Das Biswas**, M. Saha, P. Debbarma, “**Innovative Approach of Designing Multilevel Inverter with Reduced Number of Switches**”, International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering, Vol. 4, Issue 2, pages 86-88, February-2016.
7. **S. Das Biswas**, R. Chakraborty, S. Debnath, “**Generation of Constant Wind Speed and Power using Fuzzy Logic Controller**”, International Journal of Engineering Research and Technology, Vol. 3, Issue 3, pages 235-237, March-2014.
8. S. Roy, M. Jamatia, **S. Das Biswas**, “**Determination of Voltage Stability using Sensitivity Indicator**”, International Journal of Electronics Communication and Computer Engineering, Vol. 4, Issue 4, pages 1140-1144, July-2013.
9. **S Das Biswas**, A Debbarma, “**Optimal operation of large power system by GA method**”, Journal of Emerging Trends in Engineering and Applied Sciences, Vol. 3, Issue 1, pages 1-7, January-2012.
10. K. Chakraborty, **S. Das Biswas**, “**An Offline Simulation Method to Identify the Weakest Bus and its Voltage Stability Margin in a Multibus Power Network**”, International Conference on Modelling and Simulation (MS'07 India) at University of Calcutta, Kolkata, West Bengal, India, during December, 3-5, 2007.
11. **S. Das Biswas**, K. Chakraborty, T. Bhattacharya, B. Nandi, “**An Offline Simulation Study of Security Analysis of a Multibus Power System Using Load-Flow based Technique**”, International Conference on Modelling and Simulation (MS'07 India) at University of Calcutta, Kolkata, West Bengal, India, during December, 3-5, 2007.

## **Refresher Course/ Orientation Programme/ GIAN Course etc. attended**

1. **Swayam Annual Refresher Programming In Teaching (ARPIT) Online Course on “Big Data Analytics for Smart Grid”**, an AICTE approved FDP Course, Organized by NITTTR, Chandigarh, India, during 1<sup>st</sup> September, 2019 to 31<sup>st</sup> October, 2019.
2. Three weeks duration **Refresher course** on **“VLSI Design and Nanotechnology: Issues and Challenges”**, Organized by UGC-Human Resource Development Centre (HRDC), Jadavpur University, Kolkata, West Bengal, India, during 28<sup>th</sup> November, 2016 to 17<sup>th</sup> December, 2016.
3. Ten days **GIAN Programme** on **“Smart Grid: Secure & Sustainable Energy”**, an MHRD Program, organized by Department of Electrical Engineering at Tripura University (A Central University), Tripura, India, during 16<sup>th</sup> September, 2016 to 25<sup>th</sup> September, 2016.
4. Ten days **Short-Term GIAN Programme** on **“Stability Modelling & Analysis of Power System Including Large Renewable Energy Sources”**, an MHRD Program, at NIT Agartala, Tripura, India, during 30<sup>th</sup> December, 2015 to 8<sup>th</sup> January, 2016.
5. Four weeks duration **Orientation Programme** organized by UGC-Human Resource Development Centre (HRDC), North-Eastern Hill University, Shillong, Meghalaya, India, during 18<sup>th</sup> May, 2015 to 14<sup>th</sup> June, 2015.

## **Coordinator/ Organizer/ Member of Workshop /Seminar etc.:**

1. **Organizing Member** of One Week **National Workshop** on **“Data Science and Data Mining”**, Organized by Department of Information Technology, Tripura University (A Central University), Suryamaninagar, Tripura (West), Tripura, India, during 10<sup>th</sup> February, 2020 to 14<sup>th</sup> February, 2020.
2. **Organizing Member** of Two days **International Conference** on **“Computer Communication and Internet of Things 2020 (CCCIoT 2020)”**, Organized by Department of Information Technology, Tripura University (A Central University), Suryamaninagar, Tripura (West), Tripura, India, during 3<sup>rd</sup> February, 2020 to 4<sup>th</sup> February, 2020.
3. **Organizing Member** of One Week **National Workshop** on **“Machine Learning and Artificial Intelligence”**, Organized by Department of Information Technology, Tripura University (A Central University), Suryamaninagar, Tripura (West), Tripura, India, during 13<sup>th</sup> January, 2020 to 17<sup>th</sup> January, 2020.
4. **Organizing Member** of Two days **International Conference** on **“Information System and Management Science (ISMS) 2019”**, Organized by Department of Information Technology, Tripura University (A Central University), Suryamaninagar, Tripura (West), Tripura, India, during 6<sup>th</sup> December, 2019 to 7<sup>th</sup> December, 2019.
5. **Organizing Member** of the 2<sup>nd</sup> One Week **National Workshop** on **“Emerging Tools and Technologies in Research”**, Organized by Department of Information Technology

Tripura University (A Central University), Suryamaninagar, Tripura (West), Tripura, India, during 5<sup>th</sup> November, 2019 to 9<sup>th</sup> November, 2019.

6. **Organizing Member** of One Weak **National Workshop** on “**Recent Trends in Quantum Computing**”, Organized by Department of Information Technology, Tripura University (A Central University), Suryamaninagar, Tripura (West), Tripura, India, during 23<sup>rd</sup> September, 2019 to 27<sup>th</sup> September, 2019.
7. **Organizing Member** of one Week **National Workshop** on “**Antenna Theory and Simulation Techniques (ATST)**”, Organized by Department of Electronics and Communication Engineering, Tripura University (A Central University), Suryamaninagar, Tripura (West), Tripura, India, during 7<sup>th</sup> January, 2019 to 11<sup>th</sup> January, 2019.
8. **Organizing Member** of the One Weak **National Workshop** on “**Emerging Tools and Technologies in Research**”, Organized by Department of Information Technology Tripura University (A Central University), Suryamaninagar, Tripura (West), Tripura, India, during 5<sup>th</sup> November, 2018 to 9<sup>th</sup> November, 2018.
9. **Joint Coordinator** of two days **Workshop** jointly organized by **Techbriddhi, IIT Guwahati & Department of Electrical Engineering**, Tripura University (A Central University) during 18<sup>th</sup> January, 2016 to 19<sup>th</sup> January, 2016.
10. **Program Committee Member** of Five days **Workshop** on “**PHOENICS 2016**” a UGC NRCPS Program, jointly organized by Institute of radio Physics and Electronics and Department of EE, Tripura University, during 29<sup>th</sup> February, 2016 to 4<sup>th</sup> March, 2016.
11. **Organizing Member** of seven days **Workshop** on “**Statistical Data Analysis Methods**”, jointly organized by Interdisciplinary Statistical Research Unit (ISRU), Indian Statistical Institute (ISI) and Tripura University (A Central University), during 18<sup>th</sup> November, 2015 to 24<sup>th</sup> November, 2015.
12. **Coordinator** of one day **Workshop** on “**Smart Grid**” held on **27<sup>th</sup> April 2015** at Tripura University (A Central University), Funded by Tripura University.

### **List of International/National Seminar/ Workshop/ FDP Programme Attended:**

1. An One-week Online Faculty Development Programme (FDP) on “**Research Opportunities, Challenges in Power Electronics for EV and Its Impact on Smart Grid**”, Organized by Electrical and Electronics Engineering, National Institute of Technology, Tiruchirappalli, India, **during 14<sup>th</sup> December to 20<sup>th</sup> December, 2020.**
2. An One-week Online Faculty Development Programme (FDP) on “**Cyber Security**”, Jointly Organized by Electronics & ICT Academy, NIT Patna, Electronics & ICT Academy, MNIT Jaipur and Supported by **Ministry of Electronics and Information Technology (MeitY)**, Government of India, during 5<sup>th</sup> October to 11<sup>th</sup> October, 2020.
3. Participated an online National Webinar on "**Promotional Avenues for Teachers in Higher Education: CAS Regulations- 2018**", Organized By Guru Angad Dev Teaching Learning Centre (GAD-TLC) of MHRD under PMMMNMTT Scheme, on 5<sup>th</sup> September, 2020.

4. An One-week Online Faculty Development Programme (FDP) on **“Energy and Environment: Conversion, Generation, Storage, and Efficient Utilization”**, Organized by Department of Electrical Engineering and Civil Engineering, North Eastern Regional Institute of Science & Technology (NERIST) under Ministry of Education, Government of India, during 24<sup>th</sup> August to 28<sup>th</sup> August, 2020.
5. A Two-week Online Faculty Development Programme (FDP) on **“ICT Tools for Teaching, Learning Process and Institute”**, Jointly Organized by Electronics & ICT Academies (NIT Patna, MNIT Jaipur, PDPM IIITDM Jabalpur, IIT Guwahati and IIT Roorkee) under the “Scheme of financial assistance for setting up of Electronics and ICT Academies” by the Ministry of Electronics and Information Technology (MeitY), Government of India, during 10<sup>th</sup> August to 21 August, 2020.
6. A Two-week Online Faculty Development Programme (FDP) on **“Advanced Optimization Techniques and hands-on with MATLAB/SCILAB”**, Jointly Organized by Electronics & ICT Academies (Electronics & ICT Academy, NIT Patna, Electronics & ICT Academy, MNIT Jaipur, Electronics & ICT Academy, PDPM IIIT DM Jabalpur) under the “Scheme of financial assistance for setting up of Electronics and ICT Academies” by the Ministry of Electronics and Information Technology (MeitY), Government of India, during 13<sup>th</sup> July to 24 July, 2020.
7. Participated an Online Teaching-Learning National Webinar on **“NAAC Accreditation Management System”**, on 26<sup>th</sup> June, 2020.
8. Participated an Online Teaching-Learning National Webinar on **“Online Teaching-Learning and Online Assessment”**, on 24<sup>th</sup> June, 2020.
9. Participated an **Online Web Seminar: Webinar** on **“IEEE-BLP Webinar on Drone Application in IoT”**, Organized by IEEE Standards Associations, on 4<sup>th</sup> June, 2020.
10. Participated an **Online Web Seminar: Webinar** on **“IEEE 802.11 and Building Wireless Community Networks”**, Organized by IEEE Standards Associations & MHRD PMMMNMTT FDC, Shivaji University, Kolhapur, on 22<sup>nd</sup> May, 2020.
11. Participated an **Online Course** on **“Examination Reforms”**, Organized by AICTE, New Delhi, during 15<sup>th</sup> April, 2020 to 18<sup>th</sup> April, 2020.
12. Participated and Successfully Completed One Weak **National Workshop** on **“Data Science and Data Mining”**, Organized by Department of Information Technology, Tripura University (A Central University), Suryamaninagar, Tripura (West), Tripura, India, during 10<sup>th</sup> February, 2020 to 14<sup>th</sup> February, 2020.
13. Participated and Successfully Completed One Weak **National Workshop** on **“Machine Learning and Artificial Intelligence”**, Organized by Department of Information Technology, Tripura University (A Central University), Suryamaninagar, Tripura (West), Tripura, India, during 13<sup>th</sup> January, 2020 to 17<sup>th</sup> January, 2020.
14. Participated and Successfully Completed 2<sup>nd</sup> One Weak **National Workshop** on **“Emerging Tools and Technologies in Research”**, Organized by Department of Information Technology Tripura University (A Central University), Suryamaninagar, Tripura (West), Tripura, India, during 5<sup>th</sup> November, 2019 to 9<sup>th</sup> November, 2019.

15. Participated and Successfully Completed One Weak **National Workshop** on “**Recent Trends in Quantum Computing**”, Organized by Department of Information Technology, Tripura University (A Central University), Suryamaninagar, Tripura (West), Tripura, India, during 23<sup>rd</sup> September, 2019 to 27<sup>th</sup> September, 2019.
16. Participated an online webinar delivered by **Dr. Vidyasagar Potdar from Australia** on the topic “**How to publish a Literature Review in SCI and SCOPUS Indexed Journals**”, on 20<sup>th</sup> November, 2018.
17. Participated and Successfully Completed One Weak **National Workshop** on “**Emerging Tools and Technologies in Research**”, Organized by Department of Information Technology Tripura University (A Central University), Suryamaninagar, Tripura (West), Tripura, India, during 5<sup>th</sup> November, 2018 to 9<sup>th</sup> November, 2018.
18. One Day Workshop on “**Cyber-Security**”, Organized by Tripura University (A Central University) with National Education Foundation USA, on 25<sup>th</sup> September, 2018.
19. One Day Workshop on “**e-Waste Management and Information Security**”, Organized by National Institute of Electronics and Information Technology (NIELIT), Agartala Centre, on 12<sup>th</sup> April, 2018.
20. One Day workshop on “**The Role of Local Chapters**”, Organized by Indian Institute of Technology, Kanpur at Tripura University (A Central University), on April 24, 2017.
21. The Seminar on “**Gas Production Related Activities of ONGC Ltd. in Tripura State & Gas based Industries & other Industries**”, Organized by The Institute of Engineers (India), Tripura State Centre jointly with NIT, Agartala, TIT, Narsingarh, ICFAI University, Techno India & Tripura University (A Central University), on 30<sup>th</sup> March, 2016.
22. The Seminar on “**Power Generation in North Eastern Region of India**”, Organized by The Institute of Engineers (India), Tripura State Centre jointly with NIT, Agartala, TIT, Narsingarh, ICFAI University, Techno India & Tripura University (A Central University), on 26<sup>th</sup> March, 2016.
23. The Seminar on “**Power Development Scenario in Tripura & Bangladesh**”, Organized by The Institute of Engineers (India), Tripura State Centre jointly with NIT, Agartala, TIT, Narsingarh, ICFAI University, Techno India & Tripura University (A Central University), on 25<sup>th</sup> March, 2016.
24. Two days workshop on “**LabVIEW with Real Time Data Acquisition and Control**”, jointly organized by Micro Pro & National Instruments Company and Tripura University (A central University), Funded by National Instruments, from 19<sup>th</sup> - 20<sup>th</sup> January 2016.
25. Two days Workshop on “**Virtual Laboratory**”, Organized by Tripura University (A Central University) and Indian Institute of Technology Guwahati, from 13<sup>th</sup>-14<sup>th</sup> January, 2016.
26. One day work shop on “**Smart Grid**”, Organized by Department of Electrical Engineering, Tripura University, on 27<sup>th</sup> April, 2015.
27. Three days Workshop on “**Fundamentals of Image Analysis and Pattern Recognition**”, Organized by Department of Computer Science & Engineering, Tripura

University (A Central University) in collaboration with Department of Information Technology, Tripura University (A Central University), Tripura, India, from 6<sup>th</sup> to 8<sup>th</sup> February, 2015.

28. One Day Workshop on **“The Sexual Harassment of Women at Workplace (Prevention, Prohibition, Redressal) Act 2013”**, Women's Grievances Redressal Committee, T.U. in collaboration with Women's Studies Centre, T.U., on 27<sup>th</sup> November, 2014.
29. One day TEQIP –II Project Sponsored Workshop on **“Basics of Photonics”**, Organized by Department of Electrical Engineering, Tripura Institute of Technology, Narsingarh, Tripura (West), Tripura, India, on 1<sup>st</sup> February, 2014.
30. The two days National Seminar on **“Higher Education: Past, Present and Future, a Special Reference to North East India”**, Organized by Tripura University Employees' Association, Tripura University (A Central University), Suryamaninagar, Tripura, India, from 25<sup>th</sup> – 26<sup>th</sup> October, 2013.
31. Five days TEQIP –II Sponsored Short Term Course on **“Modern Trends in Power Electronics, Control and Machine Drives (MTPCMD-2013)”**, Organized by the Department of Electrical Engineering, National Institute of Technology, Durgapur, from 11<sup>th</sup> September-15<sup>th</sup> September, 2013.
32. One day Implementation Sensitizing Workshop on **“Energy Conservation Building Code (ECBC)”**, Organized jointly by The Institution of Engineers (India), Tripura State Centre and Tripura State Electricity Corporation Limited, (SDA, Tripura), Sponsored by The Bureau of Energy Efficiency (BEE), New Delhi, on 25<sup>th</sup> August, 2013.
33. Eleven days **SAKSHAM –IT Champion Training Program**, Organized by Tripura University & Conducted by Microsoft, from 21<sup>st</sup> November-1<sup>st</sup> December, 2011.
34. One day **IUAC Acquaintance Program**, Organized by the Department of Physics, Tripura University (A Central University) & IUAC, New Delhi, India, on 3<sup>rd</sup> October 2010.
35. One day Workshop on **“Real Time Digital Simulation of Power Systems”**, Organized by Department of Applied Physics, University of Calcutta and Sponsored by AMSE, France, on 2<sup>nd</sup> December, 2007.
36. Five days **ISI-TU Winter School** on **“Pattern Recognition and Machine Intelligence: Recent Advances”**, Organized jointly by Machine Intelligence Unit, ISI, Kolkata and Computer Centre, Tripura University, from 17<sup>th</sup> January-21<sup>st</sup> January, 2006.
37. Five days Workshop on **“Capacity Building in Rural Development”**, Organized by Tripura University & R. D. Department, Tripura, from 26<sup>th</sup> December-30<sup>th</sup> December, 2005.

\*\*\*\*\*