

Brief Personal Information of Sangita Das Biswas



Name: Mrs. SANGITA DAS BISWAS

Designation: Assistant Professor (Stage-II)

Department: Electrical Engineering,

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

Topics Taught: Modern Power System Operation and Control, Smart Grid, Power Electronics Application in Power System, Special Electrical Machines, Basic Computer Skill-I & II.

Subject Interest:

- Power System
- Power Quality Improvements

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:

1. T. K. Das, R. Debnath, **S. Das Biswas**, “Modeling and Implementation of Advanced Electronic Circuit Breaker Technique for Protection”, book chapter on Application of Internet of Things 2020 (ICCCIOT 2020), published by Springer, Singapore, <https://link.springer.com/book/10.1007/978-981-15-6198-6> , **Online ISSN**2367-3389, **Online ISBN**978-981-15-6198-6, pages 15-26, 4th August, 2020.

https://doi.org/10.1007/978-981-15-6198-6_2

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 3rd-4th 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 (IJCSE), 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 (ICES-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 1st September, 2019 to 31st 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 28th November, 2016 to 17th 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 16th September, 2016 to 25th 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 30th December, 2015 to 8th January, 2016.**
5. Four weeks duration **Orientation Programme** organized by UGC-Human Resource Development Centre (HRDC), North-Eastern Hill University, Shillong, Meghalaya, India, **during 18th May, 2015 to 14th June, 2015.**

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

1. **Organizing Member** of an Online Mode 4th One-Week **National Workshop** on **“Emerging Tools and Technologies in Research (ETTR-2021)”**, Organized by Department of Information Technology, Tripura University (A Central University), Suryamaninagar, Tripura, India, **during 14th to 18th December, 2021.**
2. **Organizing Committee Member** of an Online Faculty Development Program (FDP) on **“Introduction to Quantum Computing”** Conducted by Tripura University (A Central University), Suryamaninagar, Tripura, India, **during 8th to 12th November 2021.**
3. **Organizing Committee Member** in the 5 days Online Program for Youth on **“Embedded Computational Thinking to Make Education Systems Relevant for the Youth”**, Organized by Department of Information Technology, Tripura University (A Central University), Suryamaninagar, Tripura, India, and Sponsored by Rajib Gandhi National Institute of Youth Development, Ministry of Youth Affairs & Sports, Government of India, **during 9th to 13th August, 2021.**
4. **Organizing Committee Member** in the 5 days Online Program for Youth on **“Basic Digital Literacy Focusing on Computer Skills for the Youth”**, Organized by Department of Information Technology, Tripura University (A Central University),

Suryamaninagar, Tripura, India, and Sponsored by Rajib Gandhi National Institute of Youth Development, Ministry of Youth affairs & Sports, Government of India, for the Development of North Eastern Region Youth, **during 26th July, 2021 to 30th July, 2021.**

5. **Organizing Member** of One Week **National Workshop** on **“Emerging Tools and Technologies in Research (ETTR-2020)”**, Organized by Department of Information Technology, Tripura University (A Central University), Suryamaninagar, Tripura (West), Tripura, India, **during 15th December, 2020 to 19th December, 2020.**
6. **Organizing Member** of AICTE Sponsored 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 10th February, 2020 to 14th February, 2020.**
7. **Organizing Member** of North Eastern Council, Government of India Sponsored **International Conference on Computer Communication and Internet of Things 2020 (ICCCIOT 2020)”**, Organized by Department of Information Technology, Tripura University (A Central University), Suryamaninagar, Tripura (West), Tripura, India, **during 3rd February, 2020 to 4th February, 2020.**
8. **Organizing Member** of AICTE Sponsored 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 13th January, 2020 to 17th January, 2020.**
9. **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 6th December, 2019 to 7th December, 2019.**
10. **Organizing Member** of the 2nd 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 5th November, 2019 to 9th November, 2019.**
11. **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 23rd September, 2019 to 27th September, 2019.**
12. **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 7th January, 2019 to 11th January, 2019.**
13. **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 5th November, 2018 to 9th November, 2018.**

14. **Joint Coordinator** of two days **Workshop** jointly organized by **Techbriddhi, IIT Guwahati & Department of Electrical Engineering**, Tripura University (A Central University) **during 18th January, 2016 to 19th January, 2016**.
15. **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 29th February, 2016 to 4th March, 2016**.
16. **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 18th November, 2015 to 24th November, 2015**.
17. **Coordinator** of one day **Workshop** on **“Smart Grid”** held on **27th April 2015** at Tripura University (A Central University), Funded by Tripura University.

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

1. A One-Week Online Short Term Course on **“Energy Conservation for Sustainable Society: Innovation and Entrepreneurial Opportunity”**, organized by Department of Mechanical Engineering and Department of Electrical Engineering, in collaboration with Institute Innovation Council, National Institute of Technology Silchar, Assam, India, **during 27th February to 4th March, 2022**.
2. A Five-day online Workshop on **“Integration of Renewable Energy & EV to Microgrid: Prospectus and Challenges”**, organized by the Department of Electrical and Electronics Engineering, National Institute of Technology Tiruchirappalli, in association with The Hong Kong Polytechnic University, under Scheme for Promotion of academic and Research Collaboration (SPARC), **during 21st to 25th February, 2022**.
3. An AICTE sponsored STTP on **“Role of Teacher in Creating Effective Learning Environment for Students”**, organized by the Department of Electronics and Communication Engineering, North Eastern Regional Institute of Science and Technology (NERIST), Nirjuli, Arunachal Pradesh, India, **during 25th to 30th October, 2021**.
4. An Online Training Programme on **“Advanced Optimization Techniques and hands-on with MATLAB/SCILAB”**, jointly organized by Electronics & ICT Academies: MNIT Jaipur, NIT Patna, IIITDM Jabalpur & IIT Guwahati, Supported by Ministry of Electronics and Information Technology (MeitY) and **endorsed by AICTE/UGC, during 6th to 17th September, 2021**.
5. A Online Webinar on **“Prevention of Plagiarism and Uses of Plagiarism Checking Tools”**, organized by Tripura University (A Central University) in association with Turnitin, India **on 30th July, 2021**.
6. Two Weeks Online Faculty Development Programme (FDP) on **“Digital Tools for Writing, Authoring and Reviewing Manuscripts”**, jointly organized by Electronics & ICT Academies: IIT Guwahati, NIT Patna, MNIT Jaipur, IIT Kanpur, IIITDM Jabalpur & IIT Roorkee, Supported by Ministry of Electronics and Information Technology (MeitY) and **endorsed by AICTE/UGC, during 12th to 23rd July, 2021**.

7. Attend an **“Industry 4.0 Driven Digital Landscape in Industrial Scenario”**, organized by the Department of Electronics and Instrumentation Engineering, Techno Main Salt Lake, Salt Lake, West Bengal, **on 3rd July, 2021**.
8. An Online Free Webinar on **“Criteria 3-NBA Accreditation”**, Organised by InPods Ed-tech, **on 28th January, 2021**.
9. One-week online Faculty Development Programme (FDP) on **“Research Opportunities, Challenges in Power Electronics for EV and its Impact on Smart Grid”**, Organised by National Institute of Technology, Tiruchirappalli, Department of Electrical and Electronics Engineering, during **14th December to 20th December, 2020**.
10. A National Webinar on **“Revised Accreditation Framework of NAAC Quality Enhancement Practices in Higher Education”**, Organised by S.S.Jain Subodh P.G. (Autonomous) College. Jaipur, Rajasthan, under the AEGIS of UGC **PARAMARSH Scheme** and Internal Quality Assurance Cell (IQAC-SUBODH), **on 21st October, 2020**.
11. 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 5th October to 11th October, 2020**.
12. 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 5th September, 2020**.
13. 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 24th August to 28th August, 2020**.
14. 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 10th August to 21 August, 2020**.
15. 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 13th July to 24 July, 2020**.
16. **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 1st September, 2019 to 31st October, 2019,
Certificate: on 30th June, 2020.

17. Participated an Online Teaching-Learning National Webinar on **“NAAC Accreditation Management System”**, on **26th June, 2020**
18. Participated an Online Teaching-Learning National Webinar on **“Online Teaching-Learning and Online Assessment”**, on **24th June, 2020**
19. Participated an **Online Web Seminar: Webinar** on **“IEEE-BLP Webinar on Drone Application in IoT”**, Organized by IEEE Standards Associations, on **4th June, 2020.**
20. 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 **22nd May, 2020.**
21. Participated an **Online Course** on **"Examination Reforms"**, Organized by AICTE, New Delhi, during **15th April, 2020 to 18th April, 2020.**
22. 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 **10th February, 2020 to 14th February, 2020.**
23. 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 **13th January, 2020 to 17th January, 2020.**
24. Participated and Successfully Completed 2nd 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 **5th November, 2019 to 9th November, 2019.**
25. 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 **23rd September, 2019 to 27th September, 2019.**
26. 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 **20th November, 2018.**
27. 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 **5th November, 2018 to 9th November, 2018.**
28. One Day Workshop on **“Cyber-Security”**, Organized by Tripura University (A Central University) with National Education Foundation USA, on **25th September, 2018.**

29. One Day Workshop on **“e-Waste Management and Information Security”**, Organized by National Institute of Electronics and Information Technology (NIELIT), Agartala Centre, on **12th April, 2018**.
30. 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**.
31. 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 **30th March, 2016**.
32. 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 **26th March, 2016**.
33. 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 **25th March, 2016**.
34. 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, on **19th - 20th January 2016**.
35. Two days Workshop on **“Virtual Laboratory”**, Organized by Tripura University (A Central University) and Indian Institute of Technology Guwahati, on **13th-14th January, 2016**.
36. One day work shop on **“Smart Grid”**, Organized by Department of Electrical Engineering, Tripura University, on **27th April, 2015**.
37. 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, on **6th to 8th February, 2015**.
38. 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 **27th November, 2014**.
39. 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 **1st February, 2014**.
40. 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, on **25th – 26th October, 2013**.

41. 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, on **11th September-15th September, 2013.**
42. 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 **25th August, 2013.**
43. Eleven days **SAKSHAM –IT Champion Training Program**, Organized by Tripura University & Conducted by Microsoft, on **21st November-1st December, 2011.**
44. One day **IUAC Acquaintance Program**, Organized by the Department of Physics, Tripura University (A Central University) & IUAC, New Delhi, India, on **3rd October 2010.**
45. 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 **2nd December, 2007.**
46. 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, on **17th January-21st January, 2006.**
47. Five days Workshop on “**Capacity Building in Rural Development**”, Organized by Tripura University & R. D. Department, Tripura, on **26th December-30th December, 2005.**

PROJECT:

1. **Co- Investigator of AICTE PROJECT** on “Development of a Semi Online Based Android Based Application for Tourism in Tripura”.

List of M.Tech. Research Project Guided:

1. Contingency Analysis and Management of Power System (2020-21).
2. Optimal Power Flow through Load Flow Technique using ABC Algorithm (2020-21).
3. Design and Simulation of Arduino & Filter Based Health Monitoring System Using IoT for COVID-19 Patients (2019-20).
4. Optimal Placement of Phasor Measurement unit in a Transmission Line (2019-20).
5. Modelling and Simulation of Solar Pumping System using Hybrid Energy for Remote and Hilly Area of North East, India (2018-19).
6. Modeling, Simulation and Monitoring of a two area system using a Phasor Measurement Unit (2018-19).

7. Modeling and Implementation of Advanced Electronic Circuit Breaker Technique for Protection (2017-18).
8. Modeling, Simulation and Analysis of a DC & AC Output Using Hybrid PV and Wind Power System for Remote and Hilly Areas (2017-18).
9. Frequency Control of Smart Grid Power System Network by VVVF Control Method (2016-17).
10. A New Approach of Designing Multilevel Inverter with Reduced Number of Switches (2015-16).
11. Grid Bus Management Using Renewable Energy Sources with Open Market and Frequency based Economy Condition (2014-15).
12. Generation of Constant Wind Speed and Power Using Fuzzy Logic Controller (2013-14).
13. Determination of Voltage Stability using Sensitivity Indicator (2012-13).
14. Minimization of Generation Cost with Optimal Dispatch for a Large Power System (2012-13).
15. Reactive power Compensation in a Distribution Network using D-STATCOM (2011-12).
16. Transient Analysis of Single Phase Transformer with State Model (2010-11).
17. Modelling and Simulation of Synchronous Machine in Stability Study for Power System (2010-11).
18. Optimal Operation of a Large Power System (2009-10).
19. Improvement of Power System Transient Stability with Static Var Compensator (2008-09).
20. Improvement of Power System Performance with Facts Controllers (2007-08).
21. Microprocessor based Performance Monitoring Instrument for a Transformer (2006-07).
22. Transient Stability Simulation in Power System (2006-07).
