

BHIMSEN TUDU

Associate Professor



Power Engineering Department, Salt lake campus, Jadavpur University, Block: LB, Sector: III, Plot: 8, Salt Lake City, Kolkata: 700106, West Bengal, India

OBJECTIVE

In quest of challenging Academic position / Design / R & D / Techno-Commercial assignments of Institutes/ Industrial Projects/ Research Organization while being resourceful, innovative and dynamic for organizational growth. Adept at acclimatizing in competitive environments which require a high degree of critical judgment, maturity and creativity with the experience of leading age/ state of the art technology

RESEARCH ABRIDGEMENT

RESEARCH DOMAIN

Distributed Generation/Hybrid Renewable Energy/Micro grid & its integration to the grid and smart grid Systems, Energy Economics

PhD Students:

1. Bishnu Dalal

PhD Topic: Renewable Energy, Prediction of Different Renewable Energy Sources with the help of Meteorological Parameters

ON-GOING P.G THESIS

Currently two students are working on the topics of Flyback Converter integrated solar PV system and Multi-level inverter based solar PV system and their controls.

COMPLETED P.G THESIS GUIDANCE

1. Mr. Saurabh Kumar

Thesis Title: Comparative study of different islanding techniques for grid connected PV system

Co-Guide: Prof. (Dr.) K.K. Mandal, Professor, Power Engineering Dept., Jadavpur University, Kolkata, India

Year of Thesis Submission: August, 2022

2. Mr. Prithwish Saha

Thesis Title: Performance Evaluation of Grid Connected PV System under Different PLL Synchronization Techniques

Co-Guide: Prof. (Dr.) K.K. Mandal, Professor, Power Engineering Dept., Jadavpur University, Kolkata, India

Year of Thesis Submission: August, 2022

3. Mr. Arkatanu Maji

Personal Information

Permanent Address

Club Town Gardens
Flat No-3I, Block-2, Phase-II, 12. M. M. Feeder Road
Kolkata: 700057,
West Bengal, India

Contact

Email:

bhimsen_ju@yahoo.co.in
bhimsen.guru82@gmail.com
bhimsen.tudu@jadavpuruniversity.in

Phone No.: +91-9903186606
+91-8240977076

DOB: 28th Nov, 1982

Nationality: Indian

Sex: Male

Marital Status: Married

Languages Known

English, Hindi, Bengali,
Santali, German

Computer & Software

MATLAB, C, AutoCAD,
ORCAD, HOMER, MPLAB
IDE, ERP Sofgen, DigSilent
Power Factory Software, i-
HOGA

Interests

Playing cricket, Listening
music, social networking,
Technical Blog writing

Referees

1. Prof. (Dr.) K. K. Mandal
Ex Head & Professor,
Dept. of Power Engg.
Jadavpur University,
Kolkata, India
Email:
kkm567@yahoo.co.in
Mob: +91-9433789792

Thesis Title: Active and Reactive Power Control and Low Voltage Ride Through (LVRT) Capability Analysis of a Three Phase Two-stage Grid Connected Photo-voltaic (PV) System

Co-Guide: Prof. (Dr.) K.K. Mandal, Professor, Power Engineering Dept., Jadavpur University, Kolkata, India

Year of Thesis Submission: Nov, 2020

4. Mr. Anu Biswas

Thesis Title: Performance Analysis of Grid Connected Microgrid System under Grid Faults

Co-Guide: Prof. (Dr.) K.K. Mandal, Professor, Power Engineering Dept., Jadavpur University, Kolkata, India

Year of Thesis Submission: May, 2019

5. Mr. Abhisek Saha

Thesis Title: Maximum Power Point Tracking of Solar PV array under Partial Shading Condition using Soft Computing Techniques

Co-Guide: Prof. (Dr.) K.K. Mandal, Professor, Power Engineering Dept. Jadavpur University, Kolkata, India

Year of Thesis Submission: May, 2018

6. Mr. Arpan Chakraborty

Thesis Title: Dynamic Performance Analysis of a Grid Connected DFIG based Wind Energy Conversion System

Co-Guide: Prof. (Dr.) K.K. Mandal, Professor, Power Engineering Dept. Jadavpur University, Kolkata, India

Year of Thesis Submission: May, 2017

7. Ms. Moumita Ghosh

Thesis Title: Cuckoo Search Algorithm for Optimal Sizing and Placement of DG Units in Radial Distribution Systems

Co-Guide: Prof. (Dr.) K.K. Mandal, Professor, Power Engineering Dept. Jadavpur University, Kolkata, India

Year of Thesis Submission: May, 2017

8. Mr. Saubhagya Ranjan Biswal

Thesis Title: Optimal Sizing and Placement of Capacitors in Radial Distribution Systems using Cuckoo Search Algorithm

Co-Guide: Prof. (Dr.) K.K. Mandal, Professor, Power Engineering Dept. Jadavpur University, Kolkata, India

Year of Thesis Submission: November, 2016

9. Mr. Somnath Das

Thesis Title: Study on Design and Performance Characterization of Stand-alone Solar Photovoltaic System

Co-Guide: Prof. (Dr.) K.K. Mandal, Professor, Power Engineering Dept. Jadavpur University, Kolkata, India

Year of Thesis Submission: May, 2016

10. Mr. Soumyadip Roy

Thesis Title: Environmental/Economic scheduling of a Microgrid (MG) with renewable energy resources using Particle Swarm Optimization (PSO) technique

Co-Guide: Prof. (Dr.) K.K. Mandal, Professor, Power Engineering Dept. Jadavpur University, Kolkata, India

Year of Thesis Submission: May, 2016

11. Mr. Biswaranjan Kuanr

Thesis Title: Multi-objective Optimization of Hybrid Energy System by Different Meta-heuristic Techniques

Co-Guide: Prof. (Dr.) K.K. Mandal, Associate Professor, Power Engineering Dept. Jadavpur University, Kolkata, India

Year of Thesis Submission: June, 2014

12. Ms. Suhila Parvin

Thesis Title: Remote Area Electrification with Stand-alone Hybrid Renewable Energy system using HOMER software: Optimization and Techno-economic Analysis

Co-Guide: Prof. (Dr.) K.K. Mandal, Associate Professor, Power Engineering Dept. Jadavpur University, Kolkata, India

Year of Thesis Submission: June, 2014

13. Ms. Amrita Bhowmik

Thesis Title: Design and scheduling of a Hybrid Power System consisting of Wind Turbine, PV generator, Battery Bank and Diesel Generator using 'area based observe and focus' algorithm

Co-Guide: Prof. (Dr.) Niladri Chakraborty, Professor, Power Engineering Dept. Jadavpur University and Prof. (Dr.) K.K. Mandal, Associate Professor, Power Engineering Dept. Jadavpur University, Kolkata, India

Year of Thesis Submission: June, 2013

14. Mr. Sajjan Kumar

Thesis Title: Optimal Sizing and Placement of Generator Units in Distributed Generation System by Particle Swarm Optimization (PSO) Techniques

Co-Guide: Prof. (Dr.) Niladri Chakraborty, Professor, Power Engineering Dept. Jadavpur University, Kolkata, India

Year of Thesis Submission: June, 2012

15. Mr. Diptendu Pal

Thesis Title: Reconfiguration and Service Restoration in Radial Distributed System using Differential Evolution

Co-Guide: Prof. (Dr.) Niladri Chakraborty, Professor, Power Engineering Dept. Jadavpur University, Kolkata, India

Year of Thesis Submission: June, 2012

16. Mr. Preetam Roy

Thesis Title: Techno-Economic Feasibility Analysis of Off-grid Hybrid Energy System using Particle Swarm Optimization

Co-Guide: Nil

Year of Thesis Submission: June, 2012

PhD THESIS

Title: Soft computation based optimized sizing of hybrid renewable energy system

Supervisor/s:

1. Prof. (Dr.) Niladri Chakraborty, Dept. of Power Engineering, Jadavpur University, India
2. Prof. (Dr.) Kamal Krishna Mandal, Dept. of Power Engineering, Jadavpur University, India

POST GRADUATE THESIS

Title: "Sizing, scheduling and Optimization of hybrid renewable off-grid energy system with different meta-heuristic optimization techniques"

UNDER-GRADUATE PROJECT

Title: High speed traction

ACADEMIC ACTIVITIES

Major Research Project

1. Title of Project: Dynamic response analysis of grid connected and stand-alone PV based renewable energy system
Funding Agency: Dept. of Higher Education, GoI, under scheme of RUSA granted to Jadavpur University
Date of Initiation and Duration: 30.05.2019, 1 Year

Status: Completed

2. Design and development of advanced measuring and storing system for hybrid Renewable Energy System (RES) under the Research Support to Faculty Members of TEQIP-II, Jadavpur University (Completed 2017)
3. Techno-economic analysis of the stand alone renewable hybrid energy system, under the scheme of Innovative Research Program of UGC (completed 2011)

Consultancy/Testing Work

1. "Performance Evaluation of small wind turbine" funded by Heritage Institute of Technology, Kolkata, India

Other Academic/Scientific/Administrative Contribution

1. Member of Project Implementation Group (PIG) of DST-FIST project sanctioned to Department of Power Engg. in the year of 2019
2. Developed the "Distribution Generation Lab" of Dept. of Power, Jadavpur University
3. Worked under "Winter visiting researcher program, 2015" in IIT, Kanpur for a duration of 23 days (1.12.2015-23.12.2015) under the guidance of Prof. S.N. Singh, Department of Electrical Engg.
4. Course Co-ordinator of One Year Academic Course on Electrical Engg. in Jadavpur University (2019-2020)
5. Acted as a Core committee member of "Improved Student Learning" of TEQIP-III program (2017-2020)
6. Member of SC/ST/OBC cell of Jadavpur University (2008-2012; 2022-present)
7. Convener of Purchase Committee of Dept. of Power Engg. Jadavpur University (2016-present)
8. Nodal person of Equal opportunity cell of JU for the 12th plan of UGC
9. Program Officer of "National Service Scheme", JU Unit, Govt. of India (2008-present)
10. *Participated as Team Manager* of NSS Unit, Jadavpur University for National Integration Camp, organized by Visvesvaraya Technological University, Belgaum, Karnataka, India from 9th to 15th Jan. 2014.
11. **Paper reviewer of International journal:**
 - a) IET Power Electronics (IET)
 - b) IET Generation, Transmission and distribution
 - c) Energy Conversion and Management (Elsevier)
 - d) Electric Power components and Systems (Taylor and Francis)
 - e) International Journal of Ambient Energy (Taylor and Francis)
12. **Acts as a Program/Technical committee member in**
 - I. 3rd International Conference on Innovations in Energy Management and Renewable Resources (IEMRE-2023), technically sponsored by SMART Society USA and organized by the Institute of Engineering & Management, Kolkata, West Bengal, India during 16 - 18th February, 2023.
 - II. 2nd International Conference on Recent Innovations in Energy Management and Renewable Resources 2022 (IEMRE 2022) technically sponsored by IEEE Kolkata section, Solar Energy Society of India and SMART Society USA and organized by the Institute of Engineering & Management, Kolkata, West Bengal, India on 25 -27 February, 2022.
 - III. IEEE International Conference on Computing, Power and Communication Technologies 2019
 - IV. IEEE International Conference on Computing, Power and Communication Technologies 2018. Radisson Blu Hotel Greater Noida and Galgotias University, Greater Noida, India, September 28-29, 2018
 - V. National Conference on Emerging Trends in Engineering & Science 2014 (ETES 2014) January 30 - 31, 2014 held in Asansol Engineering College, Asansol, India.

Invited Lectures in Seminar/Conference/FDP/RC/OP etc.

1. **Interdisciplinary Refresher Course** titled "Renewable Energy and its Digital Translation" organized by Department of Power Engineering, Jadavpur University under the aegis of UGC-HRDC, Jadavpur University, India
Date: 2nd March – 15th March, 2022 in Virtual (Online) mode
Title of Lecture: Powering Home with Solar Energy
2. **Two-Day National Seminar on “Conventional to Renewables: Transition in Indian Power Sector”** organized by School of Energy Studies, Jadavpur University and Alumni Association, NCE Bengal and Jadavpur University, India
Date: 7-8th February, 2020
Title of Lecture: Renewables Based Energy Systems-Shift towards Sustainability?
3. **One-day National Level Seminar on “Sustainable Development: Its impact on marginalized”** organized by Dept. of Chemistry, Physics, Botany, Geography, Economics and IQAC: Tamralipta Mahavidyalaya, Tamluk, Purba Medinipur, WB, India in collaboration with Sree Chaitanya Mahavidyalaya, Habra, North 24 Parganas, WB, India
Date: 27th January, 2020
Title of Lecture: Society, Sustainable Development and Energy-The Nexus

Awards/Recognition

1. **Best Paper Award:** Title: Optimal Capacity and Location of DGs in Radial Distribution Network Using Novel Harris Hawks Optimization Algorithm. In Proceedings of International Conference on Scientific and Natural Computing (SNC-2021). Organized by Gautam Budhha University, Greater Noida, India. Feb.-5-6, 2021.

Session Chaired

Name of the Seminar/ Workshop/Conference/ Symposium	Session Title	Venue	Date
3rd International Conference on Innovations in Energy Management and Renewable Resources (IEMRE-2023), technically sponsored by SMART Society USA and organized by the Institute of Engineering & Management, Kolkata, West Bengal, India during 16 - 18th February, 2023	TRACK -4: SMART GRID TECHNOLOGIES	Online	18 th Feb., 2023
2 nd International Conference on Recent Innovations in Energy Management and Renewable Resources 2022 (IEMRE 2022) technically sponsored by IEEE Kolkata section, Solar Energy Society of India and SMART Society USA and organized by the Institute of Engineering & Management, Kolkata, West Bengal, India on 25 -27 February, 2022.	SMART GRID TECHNOLOGIES II	Online	27 th Feb., 2022

Seminar/Workshop/Conference/Symposium organized

Name of the Seminar/ Workshop/Conference/ Symposium	Role	Venue	Date
Two-Week Inter-Disciplinary Refresher Course	Co-ordinator	Dept. of Power Engg.	6th January –

on “Non-Conventional Energy-A Paradigm Shift towards Sustainability” organized by Department of Power Engineering and UGC-HRDC, Jadavpur University		Jadavpur University Kolkata, India	18th January, 2020
UGC-SAP (DRS-I) sponsored One day knowledge dissemination workshop/training on “PV-Wind-Battery based Hybrid distributed generation system”	Co-ordinator	Dept. of Power Engg. Jadavpur University Kolkata, India	23 rd February 2017
2 day National Seminar on “Shaping the Future of Indian Power Sector through Renewable Energy” Sponsored by TEQIP-II, JU	Joint Co-ordinator	Dept. of Power Engg. Jadavpur University Kolkata, India	9-10 Sept., 2016

Seminar/Workshop/Conference/Symposium attended

Name of the paper/s presented	Name of the Seminar/ Workshop/Conference/ Symposium	Venue	Date
Control Strategy for Active and Reactive Power Regulation of Grid Tied Photovoltaic System	1st International Conference on Recent Innovations in Energy Management and Renewable Resources 2021 (IEMRE 2021) technically sponsored by IEEE Kolkata section, Solar Energy Society of India and SMART Society USA and organized by the Institute of Engineering & Management, Kolkata, West Bengal, India on 5-7 Feb. 2021	Online	5-7 Feb. 2021
-----	One Week Online International Faculty Development Programme on “ Machine Learning and Computer Vision: Applications, Research Challenges (MLCV 2020) ” jointly organized as twinning programme by National Institute of Technology Silchar, Assam and Gauhati University Institute of Science & Technology, Guwahati, Assam	Online	24th – 28th August, 2020
-----	Faculty Development Program on “ Impact of Covid on Power Sector (ICPS-2020) ” organized by: SPIU Odisha in association with Department of Electrical Engineering College of Engineering and Technology, Bhubaneswar-751029	Video conferencing mode	13th – 18th August, 2020
-----	UGC Sponsored Winter School, 2019 under Refresher Course on “Emerging Trends in Mechanical Engineering with Inter-Disciplinary Application ”	Dept. of Mechanical Engg. Jadavpur University, Kolkata-32, India	2 nd Jan-22 nd Jan, 2019

----	<p>“International Seminar cum Exhibition: Connecting Solar Innovation with Entrepreneurship” jointly organized by NBIRT and CEGESS, IEST.</p> <p>Supported by, DST, GoI, and Vikram Solar Pvt. Ltd. Kolkata</p>	Hotel J W Marriot	7 th April, 2018
Analyzing the dynamic behavior of a DFIG based wind farm under sudden Grid disturbances	International conference on Intelligent Sustainable Systems (ICISS 2017) organized by SCAD Institute of Technology, Palladam, Tamil Nadu, India	Palladam, Coimbatore, India	Dec. 7-8, 2017
Dynamic Response Analysis of a Back-to-Back Converter based DFIG Wind Farm under Variable Wind Speed	2nd International Conference on “Communication and Electronics Systems (ICCES 2017), 2017 Organized by Confyy in association with PPG Institute of Technology, Coimbatore, India	PPG Institute of Technology, Coimbatore, India	Oct. 19-20, 2017
-----	TEQIP-III Teachers Training Workshop on Induction Program for NER Institutes organized by Centre for Educational Technology, IIT, Guwahati	IIT Guwahati, India	Oct. 13-15, 2017
----	TEQIP – II Sponsored Workshop on “Computer vision: Concepts Trends & Application” Organized by Dept. of Printing Engg. Jadavpur University	Hotel DE Sonnet, Kolkata	31 st March, 2017
----	TEQIP – II Sponsored one day seminar on “Internet-of-Things (IoT): Ecosystems and Applications” Organized by Dept. of Information Technology, Jadavpur University	Dept. of Information Technology, Jadavpur University Kolkata, India	28 th March, 2017
-----	TEQIP – II Sponsored one day seminar on “Advances in Welding Processes” Organized by Dept. of Power Engg. Jadavpur University	Dept. of Power Engg. Jadavpur University Kolkata, India	28 th March, 2017
-----	TEQIP – II Sponsored one day seminar on “Sensor Systems for Agricultural Applications” Organized by Dept. of Instrumentation and Electronics Engineering, Jadavpur University, Kolkata In association with Centre for Development of Advanced Computing, Kolkata; National Tea Research Foundation; Tocklai Tea Research Institute, Tocklai; and National Institute of Technology, Patna	Dept. of Instrumentation and Electronics Engineering, Jadavpur University, Kolkata In association with Centre for Development of Advanced Computing, Kolkata; National Tea Research Foundation; Tocklai Tea Research Institute, Tocklai; and National Institute of Technology, Patna	15 th March, 2017

----	TEQIP – II Sponsored One-day National Seminar on “Frontiers in Energy Storage”, Organized by Dept. of Power Engg. Jadavpur University	Dept. of Power Engg. Jadavpur University Kolkata, India	9 th March, 2017
---	TEQIP – II Sponsored Workshop On “Initiatives in Outcome Based Education and NBA Accreditation” under the Faculty & Staff Development Program of TEQIP-II, Jadavpur University	Hyatt Regency, Kolkata	March 6 – 8, 2017
----	One-day Indo-UK workshop on "Microfluidics for Affordable Healthcare" organized jointly by IIT Kharagpur and Jadavpur University; Sponsored by The Royal Academy of Engineering, UK	Dept. of Power Engg. Jadavpur University Kolkata, India	20 th Jan, 2017
Loss and Cost Minimization with Enhancement of Voltage Profile of Distribution Systems Using a Modified Differential Evolution Technique	International Conference on “Soft Computing: Theories and Applications” Organized by Amity University Rajasthan, Jaipur, India	Amity University Rajasthan ,Jaipur, India	Dec 28-30, 2016
-----	1-Day National Workshop on “Recent Trends in Thermal Power” Organized by Dept. of Power Engg. Jadavpur University	Dept. of Power Engg. Jadavpur University Kolkata, India	4 th Oct. 2016
-----	1-Day Awareness Program on “Teaching Resources and Interactive Laboratory Simulation (TRAILS)” Organized by Centre for Digital Library & Documentation and School of Education Technology, Jadavpur University	Dr. H. L. Roy Auditorium, Jadavpur University	17 th Aug, 2016
A Novel Strategy for Determination of Optimal Sizing of PV-Wind Hybrid System	IEEE International conference on Control, Instrumentation, Energy & Communication (CIEC16)	University of Calcutta, Kolkata, India	January 28 - January 30, 2016;
Modeling and Design of Hybrid Energy System Considering Degradation and Emission	2015 IEEE Power, Communication and Information Technology Conference (PCITC)	Siksha ‘O’ Anusandhan University, Bhubaneswar, India.	15-17 th October, 2015
A New Self Adaptive Particle Swarm Optimization Technique For Optimal Design of a Hybrid Power System	2015 IEEE Power, Communication and Information Technology Conference (PCITC)	Siksha ‘O’ Anusandhan University, Bhubaneswar, India.	15-17 th October, 2015
Assessment of Hybrid Renewable Energy System Considering a New Feature Called Degradation of System Components	Joint International Conference on Communication, Computing and Power Technologies – ICCCT 2015 And Artificial Intelligence and Evolutionary Computation in Engineering Systems – ICAIECES 2015	Velammal Engineering College, Chennai, India	22–23 rd April, 2015

Modeling and performance evaluation of hybrid renewable energy system considering the ageing of system components	International Conference on Soft Computing Systems (ICSCS 2015)	Noorul Islam Centre for Higher Education, Kumaracoil, Tamilnadu	20-21 st April, 2015
-----	Training in 3 Day Management Development Programme (MDP) on "Smart Electric Grid for 24x7 Power: Development and Deployment organized by The Energy and Resources Institute (TERI), India in-association with India Smart Grid Forum (ISGF)	TERI RETREAT Gual Pahari Gurgaon Faridabad Road Dist. Gurgaon (Haryana), India	19-21 March, 2015
-----	UGC Sponsored Orientation Program	Academic Staff College, Jadavpur University, Salt Lake Campus, Salt Lake City, Kolkata: 98	14th July to 11th August, 2014
Stand-alone Hybrid Renewable Energy System-An Alternative to Increased Energy Demand	International conference on Control, Instrumentation, Energy & Communication (CIEC14) organized by Department of Applied Physics, University of Calcutta	Technology Campus; Acharya Prafulla Chandra Sikhsha Prangan, University of Calcutta. JD-2, Sector-III, Salt Lake city, Kolkata 700098	January 31- February 2, 2014
Optimal Design and Performance Evaluation of a Grid Independent Hybrid Micro hydro-solar-wind-fuel cell Energy System using Meta-heuristic Techniques	2014 1st International Conference on Non Conventional Energy (ICONCE 2014) organized by JIS college of Engineering, Kalyani, India	JIS college of Engineering, Kalyani, India	January 16-17, 2014
-----	Workshop on Quartz Crystal Microbalance (QCM) and Surface Acoustic Wave (SAW) Sensors organized by Dept. of Instrumentation and Electronics engineering, Jadavpur University, Salt Lake Campus in association with Sensor Hub, Kolkata; Delhi University, C-DAC Kolkata and sponsored by DST, GoI, TEQIP, JU & C-DAC Kolkata	Dept. of Instrumentation and Electronics engineering, Jadavpur University, Salt Lake Campus	May 13 & 14, 2013
-----	Short term course on "Smart Grid" Organized by EEE dept of BIT-Mesra, Ranchi	EEE dept of BIT-Mesra, Ranchi	7th - 9th March, 2013
-----	A lecture series on Sustainability of Indian Energy Sector: Prospects and Challenges organized by Jadavpur University in collaboration with Bengal Chamber of Commerce and Industry European Business and Technology Centre under Industry Institution Interaction program of TEQIP (Phase II)	Gandhi Bhavan, Jadavpur University, Kolkata:32	18 th January, 2013
Techno-Economic Feasibility Analysis of Hybrid Renewable Energy	3 rd International Conference on Swarm, Evolutionary and Memetic Computing (SEMCCO 2012) and Fuzzy and Neural	Siksha 'O' Anusandhan University,	20 th – 22 nd December, 2012

System using Improved version of Particle Swarm Optimization	Computing Conference (FANCCO 2012) organized by Siksha 'O' Anusandhan University, Bhubhaneswar, India	Bhubhaneswar, Odisha, India	
A New Improved Self-adaptive Particle Swarm Optimization Technique for Economic Load Dispatch	3 rd International Conference on Swarm, Evolutionary and Memetic Computing (SEMCCO 2012) and Fuzzy and Neural Computing Conference (FANCCO 2012) organized by Siksha 'O' Anusandhan University, Bhubhaneswar, India	Siksha 'O' Anusandhan University, Bhubhaneswar, Odisha, India	20 th – 22 nd December, 2012
-----	One day workshop on “Supercritical technology- Opportunities and challenges” organized by Dept. of Power Engineering, Jadavpur University, Sponsored by TEQIP-Phase II, Jadavpur University	Jadavpur University Kolkata, WB India	25 th August 2012
Optimal Unit Sizing of Stand-alone Renewable Hybrid Energy System Using Bees Algorithm	IEEE International Conference on Energy, Automation and Signal (ICEAS-2011)	SOA University Bhubaneswar, Odisha, India	Dec. 28-30, 2011
A Novel Population-Based Optimization Algorithm for Optimal Distribution Capacitor Planning	IEEE International Conference on Energy, Automation and Signal (ICEAS-2011)	SOA University Bhubaneswar, Odisha, India	Dec. 28-30, 2011
-----	Refreshers course on “Recent Advances in Energy Engineering & Environment Management”, organized by UGC-Academic Staff College & Mechanical Engineering, Jadavpur University	Dept. of Mechanical Engineering, Jadavpur University, Kolkata- 700032	1st to 22nd February, 2011
-----	Workshop on Interim Review of NATCOM Work Programme organized by Ministry of Environment & Forests, GOI	“The Theater”, India Habitat Centre (IHC), New Delhi, India	13th Oct, 2009
-----	National Workshop on Indian Network of Climate Change Assessment (INCCA) organized by Ministry of Environment & Forests, GOI	Hotel Ashoka, New Delhi, India	14th Oct, 2009

PROFESSIONAL EXPERIENCE

ASSOCIATE PROFESSOR

- Currently involved in teaching & guidance of undergraduate, post graduate and PhD students and research & project works in the department of Power Engineering, Jadavpur University.
- Involved in other academic and Administrative activities in Department Level and Institute level

JADAVPUR UNIVERSITY
Salt Lake City, Block: LB, Plot No. 8, Sector-III, Kolkata: 700106,
WB, India

July, 2021 – Present

ASSISTANT PROFESSOR

- Involved in teaching & guidance of undergraduate, post graduate and PhD students and research & project works in the department of Power Engineering, Jadavpur University.
- Involved in other academic and Administrative activities in Department Level and Institute level

JADAVPUR UNIVERSITY
Salt Lake City, Block: LB, Plot No. 8, Sector-III, Kolkata: 700106,
WB, India

July, 2008 – June, 2021

DEPUTY MANAGER - TECHNICAL

- Involved in the project “ERRU” (Electronic rectifier cum regulator unit) used in AC/Non –AC Coaches of Indian Railways.
- Involved in the circuit design of the rectifier cum regulator and application of power semiconductor device
- Done programming & implementation of 16-bit PIC microcontroller (Microchip)

STONE INDIA LTD
16 Taratala Road, Kolkata: 700088, India

15th Sept. 2005 – June, 2008

EDUCATION

Doctor of Philosophy (Engg.)

Jadavpur University, Kolkata: 700032, India

Masters of Power Engineering

Jadavpur University, Kolkata: 700088, India

Executive Education program on “General Management”

IBAT School of Management, Orissa, India

Summer Trainee

Crystal Cable Industries Ltd. Howrah, India

Bachelor of Electrical Engineering

Jadavpur University, Kolkata: 700088, India

Higher Secondary (W.B.C.H.S.E)

Kamalpur Netaji High School (H.S)
Bankura, West Bengal, India

Secondary (W.B.B.S.E)

Kamalpur Netaji High School (H.S)
Bankura, West Bengal, India

COMMUNITY INVOLVEMENT/VOLUNTEER WORK/ETC

Working as a Program Officer of “National Service Scheme”, Govt. of India

Declaration

I hereby declare that the information provided here by me are true and correct to the best of my knowledge.

Place: Kolkata, India

Date:

BHIMSEN TUDU

PUBLICATIONS

INTERNATIONAL JOURNAL PUBLICATIONS

1. **B. Tudu, K. K. Mandal and N. Chakraborty**; “Power output models of wind generators for Hybrid Renewable Energy System (HRES)-A Review”, *International Journal of Ambient Energy. Taylor & Francis Online (Under Review)*
2. **I. Mukherjee, A. Roy, B. Tudu, T.S. Konar**; “Off-grid hybrid renewable energy system-A solution to the problem of increasing particulate pollution scenario in the mangrove ecosystem of Sundarbans, India”. *Indian Journal of Environmental Protection (Scopus indexed); 2019. IJEP 40 (2): 207-215 (2020)*
3. **Meenakshi De, G. Das, Kamal K. Mandal, B. Tudu**; “A Critical Assessment of Demand Response Programs Applied for Optimal Energy Management in Microgrids”. *International Journal of Recent Technology and Engineering (Scopus indexed-2019-2020); vol-8, issue-2S7; pp.344-349; July, 2019. ISSN: 2277-3878; DOI: 10.35940/ijrte.B1123.0782S719;*

4. **B. Tudu, K. K. Mandal and N. Chakraborty**; “Optimal Design and Development of PV-Wind-Battery based Nano-grid System: A Field-on-Lab Demonstration (FOLD)”. *Frontiers in Energy, Springer (Scopus indexed); vol. 13(2); DOI: <https://doi.org/10.1007/s11708-018-0573-z>; pp.269-283; 2018.*
5. **B. Tudu, K. K. Mandal and N. Chakraborty**; “Modeling and Performance Evaluation of Hybrid Renewable Energy System Considering the Ageing of System Components”, *Australian Journal of Basic and Applied Sciences, 9(16) Special 2015, Pages: 126-133.*
6. **B. Tudu, K. K. Mandal and N. Chakraborty**; “Assessment of hybrid renewable energy system considering a new feature called degradation of system components”, *International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.44 (2015), Special Issues, pp. 30988-30992 (UGC CARE list).*

NATIONAL JOURNAL PUBLICATIONS

1. **Tirthankar Chakraborty, Bhimsen Tudu, Deblina Sabui, Indranil Mukherjee**; “An evaluation of renewable energy sources in Green Building systems for the residential sector in the metropolis, Kolkata, India”, *Indian Journal of Air Pollution Control, Vol. XV, No.1, March, 2015, pp. 51-66; ISSN 0250-5231*
2. **Amrita Bhowmik, B Tudu, I Mukherjee, KK Mandal, N Chakraborty**; “Renewable Energy for Sustainable Development in India: Review on Status, Potential and Policies”. *Khandwala Publishing House; 12.03.2012*

BOOK CHAPTER

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