Bio data of Dr. Biplab Bhattacharyya

Date of Birth : 09.01.1970
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Academic Records:

Examination Passed	Board/University	Year of Passing	% Marks
B.Tech (Applied Physics) , Specialization in Electrical Machines & Power System	University of Calcutta	1993	75.94
M-Tech (Applied Physics), Specialization in Electrical Machines & Power System	University of Calcutta	1995	76.75
Ph.D. in Electrical Engineering	Jadavpur University	2006	--

PhD. Thesis:

Title of Thesis	University
Optimum Planning & Co ordination of Reactive Power Sources In An Interconnected Power System	Jadavpur University

Teaching Experience:

Sl. No.	Name of the Institution	Designation	Department	Period	
				From	To
1	Malda Govt polytechnique (W.B)	Lecturer	Electrical Engineering	05.01.1997	14.02.1999
1	BITS, Pilani, Rajasthan	Assistant Lecturer	Electrical Engineering	16.02.1999	30.11.1999
2	BPC Institute of Technology, Krishnagar Govt polytechnique (W.B)	Lecturer	Electrical Engineering	04.12.1999	11.04.2001
3	National Institute of Technology, Durgapur	Lecturer	Electrical Engineering	12.04.2001	11.04.2006

4	National Institute of Technology, Durgapur	Sr. Lecturer	Electrical Engineering	12.04.2006	09.4.2007
5	IIT(ISM), Dhanbad	Assistant Professor	Electrical Engineering	10.04.2007	09.04.2010
6	IIT(ISM), Dhanbad	Associate Professor	Electrical Engineering	10.04.2010	16.08.2023
7.	IIT(ISM), Dhanbad	Professor	Electrical Engineering	17.08.2023	Till date

Industry Experience:

Sl. No.	Name of the Organization	Designation	Department	Period	
				From	To
1	Fort Gloster Industries Ltd (Cable Works), Howrah	Trainee Engineer	Electrical Test	02.08.1994	01.08.1995
	Fort Gloster Industries Ltd (Cable Works), Howrah	Assistant Engineer	Electrical Test	02.08.1995	14.02.1997

Publications: Journal & Conference

Status	Journals			Conference
	SCI/SCIE	ESCI	SCOPUS	National and International
Published	45	19	10	42

Book Chapters : 05

M-TECH Project Guidance:

Sl. No.	Name of the Students	Year of Passing	Institute	Title of the thesis
1	Kartick Chandra Jana	2003	NIT, Durgapur	Fuzzy based reactive power optimization
2	Kuntal Bhattacharjee	2005	NIT, Durgapur	Neural network approach for the assessment of reactive margin of an interconnected power system
3	Tapan kumar Chattopadhya	2006	NIT, Durgapur	Active power loss minimization by Genetic algorithm
4	Chandan kumar	2014	IIT (ISM), Dhanbad	Reactive power optimization by PSO technique
5	Abhisek Mitra	2014	IIT (ISM), Dhanbad	Swarm intelligence based optimal allocation of Static VAr compensator in a connected power network
6	Parul Singh	2015	IIT (ISM), Dhanbad	Reactive power planning using harmony search algorithm
7	Amit Bharadwaj	2015	IIT (ISM), Dhanbad	Active power loss minimization by harmony search algorithm
8	Ram Ishwar Vais	2016	IIT (ISM),	Genetic algorithm based reactive power

			Dhanbad	planning
9	Indradeo Pratap Bharti	2016	IIT (ISM), Dhanbad	Different method of weak bus detection and reactive power planning
10	Nihar Karmakar	2016	IIT (ISM), Dhanbad	Voltage control and power system stability enhancement by using FACTS
11	Karthik Parihar	2017	IIT (ISM), Dhanbad	Effects of FACTS devices on system voltage and loadability using CPF method
12	Md. Shakil Ahamad	2017	IIT (ISM), Dhanbad	Vector control of Induction machine using fuzzy logic
13	Deepak Kumar	2018	IIT (ISM), Dhanbad	Application of particle swarm optimization technique for active power loss minimization
14	Bibhas Mondal	2018	IIT (ISM), Dhanbad	Minimization of transmission loss using PSOGSA algorithm
15	Shyamal Krishna Roy	2018	IIT (ISM), Dhanbad	Solving dynamic economic and emission dispatch using Soft Computing techniques
16	Sudarshan Raj	2018	IIT (ISM), Dhanbad	Direct torque control of induction machine using fuzzy logic controller
17	Animesh Kumar	2019	IIT (ISM), Dhanbad	Reactive Power Planning Using Constriction Factor Particle Swarm Optimization Technique
18	Saurav Kumar	2019	IIT (ISM), Dhanbad	Reactive Power Planning Using Modified Grey Wolf Optimizer
19	Harrsh Vardhan	2019	IIT (ISM), Dhanbad	Optimal Reactive Power Dispatch Using Meta heuristic Techniques
20	Apporv Srivastava	2019	IIT (ISM), Dhanbad	Solving economic load dispatch problems using modern swarm intelligence techniques
21	Kumar Shivam	2019	IIT (ISM), Dhanbad	Economic Load and Emission Dispatch Using Classical and Meta-heuristic Techniques
22	Ashwni Kumar Singh	2020	IIT (ISM), Dhanbad	Modified Gray Wolf Optimizer for Microgrid Economic Dispatch
23	Sagar Saini	2020	IIT (ISM), Dhanbad	Solving Economic Load Dispatch problems using PSO Variants
24	Ankit Gupta	2020	IIT (ISM), Dhanbad	Reactive power planning using swarm evolutionary techniques
25	Rishabh Oraon	2020	IIT (ISM), Dhanbad	Weak lines and weak node identification of power system
26	Mausam Bhowmick	2023	IIT (ISM), Dhanbad	Economic load dispatch and its effect on Environment
27	Nandini Raj Sinha	2024	IIT (ISM), Dhanbad	Reactive Power Planning of Transmission lines with the optimal uses of the Var sources
28	Abhilesh Mishra	continuing	IIT (ISM), Dhanbad	Power Quality Improvement in Switched Reluctance Motor for efficient operation using different PFC Converter

PhD awarded/ongoing

Sl. No.	Name of the Students	Awarded/ Ongoing	Title of the Thesis
1	Vikash kumar Gupta (Full time)	Awarded, 2014	FACTS devices for the increased Loadability of Power system
2	Sanjay Kumar (Full time)	Awarded, 2016	FACTS devices for the solution of Congestion in Transmission Lines
3	Saurav Raj (Full time)	Awarded, 2018	Optimal co-ordination of FACTS devices with system var sources for

			reactive power planning
4	Rohit Babu (Full time)	Awarded, 2020	Optimal placement of Phasor measurement unit for power quality improvement of a connected power network
5	Bishwajit Dey (Full time)	Awarded, 2021	Modern soft computing technique applied to energy management of micro grids
6	Nihar Karmakar (Full time)	Awarded, 2022	Application of soft computing techniques for reactive power planning
7	Rahat Ullah Khan (Part time)	Awarded, 2022	Design, study and analysis of PMDC motor and hybrid Photovoltaic Thermal (PVT) solar still
8	Ramesh Devarapalli (Part time)	Awarded, 2022	Mitigation of operational complexities in an AC/DC interconnected power system using FACTs controller
9	Sourav Basak (Full time)	Awarded, 2024	Advanced Swarm Intelligence Techniques for Dynamic Economic Emission dispatch considering Renewable Energy Sources
10.	Suraj Kumar Rajbhar	Continuing	Enhancing Voltage Stability and Grid Reliability trough optimal installation of FACTS devices
11.	Aayushi Kumari	Continuing	FACTS devices for Power system stability

Sl. No.	**Guest Lecture**	**Date (dd/mm/yyyy)**	**Venue**
1	Speech delivered in short term course on "Application of Soft Computing and Optimization Techniques in Engineering and Engineering Science"	04/03/2014	NIT Durgapur
2	Technical talk on "Optimal allocation of FACTs Device using evolutionary algorithm" in the short term course "SDAPE 2016".	14/11/2016	NIT, Jamsedpur

3.	Attended a Faculty Development Program (FDP) and presented a lecture on "Advancement and Application of Soft Computing in Electrical System"	17/07/2018	BIT Sindri
4.	Presented the topic "Soft computing techniques in power system" as a Guest Lecturer	28/09/2018	KIIT University, Bhubeneswar
5.	Technical talk on "Advancements in Modern Power Systems (AMPS 2020)"	27/06/2020	NIT, Jamshedpur

Sponsored Project: 01

Sl. No.	**Title**	**Cost in Lakh**	**Duration**	**Role as PI/Co-PI**	**Agency**
1	Optimal Allocation of FACTS Devices for the increased loadability of Power System in Deregulated Electricity Market	**3.71**	**03 (Three) years from** 01.02.2011-31.01.2014	**PI**	**UGC**