Name: Dr. SOURAV PAUL

Department: ELECTRICAL ENGINEERING

Contact Nos.: 9932894389

Qualifications: B-TECH, M-TECH, Ph.D

Designation: ASSISTANT PROFESSOR

VIDWAN ID: 186166

Experience (Teaching / Research / Industry, in years): 10.8 years

Date of Joining at the Present Institution: 02.07.2013

Examinations Cleared: NA

Qualifications Summary (Reverse chronological order):

Degree	Institute	From	To	Subjects
Ph.D	MAKAUT	29.08.2013	27.08.2019	Selected power system optimization problems using different soft computing techniques
M-Tech	BCREC	2010	2012	Electrical Engineering
B-Tech	BCREC	2005	2009	Electrical Engineering
12th	DPS	2003	2005	Physics, Chemistry, Maths, English, Physical Education
10th	DPS	2002	2003	English, Hindi, Maths, Science, Social Science

Experience Summary (In chronological order):

Designation	Organization	Date From	Date To
Pro-Tem Lecturer	Bengal College of Engineering & Technology for Women	09.02.2011	31.08.2012
Assistant Professor	Bengal College of Engineering & Technology for Women	01.09.2012	30.06.2013

Assistant Professor	Dr. B. C. Roy Engineering College, Durgapur	02.07.2013	Till date

Specialization/Research Interest:

- Power system optimization,
- Optimal Power Flow (OPF).
- Optimal Reactive Power Dispatch (ORPD).
- Automatic Generation Control (AGC),
- Power system Stabilizer (PSS),
- Soft Computing Techniques,
- Small Signal Stability.

Awards & Recognitions : NIL

Courses taught:

B-Tech	Basic Electrical Engineering
	Electrical Circuit Theory
	Power System (I/II/III)
	Basic Electrical Engineering Laboratory
	Power systems (I/II) Laboratory
M-Tech	Advanced Power system Protection
	Power system Analysis
	Power system operation & Control

Online Mode of Teaching: Pdf Notes and online assessment through google drive

Publications:

Journal:

1. **Sourav Paul**, Provas Kumar Roy, "Optimal design of power system stabilizer using hybrid biogeography based predator prey optimization technique", "International Journal of Power and Energy Conversion, Scopus Indexed Journal, Inderscience", 2017, Vol. 8, No. 3, pp. 225-256, ISSN: 1757-116. DOI: https://doi.org/10.1504/IJPEC.2017.084910, (UGC approved).

2. **Sourav Paul**, Provas Kumar Roy, "Optimal design of single machine power system stabilizer using chemical reaction optimization technique", "International Journal of Energy Optimization and Engineering, IGI Global Publication, Emerging Sources Citation Index (ESCI) Journal (Web of Science, Thomson Reuters)", 2015, Vol. 4, No. 2, pp. 51-69, ISSN: 2160-9500. DOI: 10.4018/IJEOE.2015040104, (UGC approved)

3. Susanta Dutta**, Sourav Paul**, Provas Kumar Roy, "Optimal allocation of SVC and TCSC using Quasi-oppositional chemical reaction optimization for solving multi-objective ORPD problem", "Journal of Electrical Systems and Information Technology, Elsevier", 2018, Vol. 5, No. 1, pp. 83-98, ISSN: 2314-7172. DOI: https://doi.org/10.1016/j.jesit.2016.12.007, (UGC approved).

4. Sanchari Laik, Shatabdi Dey, Puja Das, Sneha Sultana, **Sourav Paul**, Provas Kumar Roy, "Automatic generation control of interconnected power system using cuckoo optimization algorithm", "International Journal of Energy Optimization and Engineering, IGI Global Publication, Emerging Sources Citation Index (ESCI) Journal (Web of Science, Thomson Reuters)", 2015, Vol. 4, No. 2, pp. 22-35, ISSN: 2160-9500. DOI: 10.4018/IJEOE.2015040102, (UGC approved).

5. Aparajita Mukherjee, **Sourav Paul**, Provas Kumar Roy, "Transient stability constrained optimal power flow using teaching learning based optimization", "International Journal of Energy Optimization and Engineering, IGI Global Publication, Emerging Sources Citation Index (ESCI) Journal (Web of Science, Thomson Reuters)", 2015, Vol. 4, No. 1, pp. 19-36, ISSN: 2160-9500. DOI:10.4018/ijeoe.2014100104, (UGC approved).

6. **Sourav Paul**, Provas Kumar Roy, "Optimal Design of Power system stabilizer using novel evolutionary algorithm", "International Journal of Energy Optimization and Engineering, IGI Global Publication, Emerging Sources Citation Index (ESCI) Journal (Web of Science, Thomson Reuters)", 2018, Vol. 7, No. 3, pp. 24-45, ISSN: 2160-9500. DOI: 10.4018/IJEOE.2018070102, (UGC approved).

Conference:

1) **S. Paul,** A. Maji, P. K. Roy, "Oppositional chemical reaction optimization algorithm for optimal tuning of power system stabilizer", 3rd international conference on foundations and frontiers in computer, Communication and electrical engineering. C2E2-2016, 15th -16th January, 2016. DOI: 10.1201/b20012-24.
2) **S. Paul,** P. K. Roy, "Oppositional cuckoo optimization algorithm for optimal tuning of power system stabilizers," Michael Faraday IET International Summit-2015, Vol. 1, pp 176-181, 12th-13th Sep, 2015. ISBN: 978-1-78561-186-5. DOI: 10.1049/cp.2015.1626
3) **S.Paul,** P K Roy**,** "Optimal design of power system stabilizer using oppositional gravitational search algorithm," 1st International Conference on Non Conventional Energy (ICONCE 2014), IEEE Conference, pp. 360-65, Kalyani, Nodia, 16th -17th, January, 2014. ISBN: 978-1-4799-3339-6; DOI: 10.1109/ICONCE.2014.6808727.
4) L. P. Das, **S. Paul,** P. K. Roy," Automatic generation control of an interconnected hydro-thermal system using chemical reaction optimization," Michael Faraday IET International Summit-2015, Vol. 2, pp 443-448, 12th-13th Sep, 2015. ISBN: 978-1-78561-186-5, DOI: 10.1049/cp.2015.1673.
5) S. Alam, **S. Paul**, P. K. Roy, "Optimal Tuning of Transient Stability Constraint Optimal Power Flow problem using a Grey Wolf Optimization", International Conference on Computer, Electrical & Communication Engineering (ICCECE-2019), IEEE conference, 18th-19th January, 2019, , ISBN: 978-1-7281-0697-7, DOI: 10.1109/ICCECE44727.2019.9001828.

Book: NA

Book Chapter:

1) **Sourav Paul**, Provas Kumar Roy, "A novel optimization algorithm for transient stability constrained optimal power flow," Book Title: Sustaining Power Resources through Energy Optimization and Engineering, Chapter-7, IGI Global Publication, pp. 147-176, 2016.
2) **Sourav Paul**, Provas Kumar Roy, "Oppositional Differential Search Algorithm for the Optimal Tuning of Both Single Input and Dual Input Power System Stabilizer," Book Title:

Research Advancements in Smart Technology, Optimization, and Renewable Energy, Chapter-13, IGI Global Publication, pp. 256-282, 2020.

Supervision of Ph.D/M.Tech / B.Tech Projects:

For Ph.D: NIL

Projects:

B-Tech

Name of students	University roll	Title of the thesis	Year
Indraveer Singh Kamboh	12001611024		
Satyaki Marik	12001611053	Wireless Power	
Saumyadip Moitra	12001611054	Transmission	2015
Sayantany Ghanty	12001611055		
Sumanta Das	12001611060		
Rajib Mandal	12001613136		
Ritesh Kr. Singh	12001613137		
Sarfaraj Alam	12001613140	Survey on	
Soumadip Chatterjee	12001613141	Sewerage Feeder	2016
Soumya Ghosh	12001613142		
Sourav Das	12001613143		
Tapos Mukherjee	12001613147		
Loyana Banerjee	12001613053		
Md. Akbar Ali	12001613056		
Md. Asif Iqbal	12001613057	Protection of	
Md. Rafeeq Alam	12001613058	Energy Meter from	2017
Md. Zunaid Quadri	12001613059	Electricity Theft	
Nandan Kumar	12001613060		
Swarnadeep Satpati	12001614108		
Parikshit Majumdar	12001614064	Density based	2018
Subham Banerjee	12001614101	Traffic Signal	
Satyajit Rout	12001614086	System	
Pritam Dhar	12001614070		
Ankit Kumar Mishra	12001615008		
Aman Kumar	12001615005		
Asmina Khan	12001616018	Solar Power Bank	
Ayan Chowdhury	12001616016	and Mobile	2019
Deepak Kumar	12001616013	Charger	
Subham Chatterjee	12001616002		

Ajitesh Roy Souvik Das Rahul Kumar Lakshman Sourav Sarkar Someshwar Anand Singh	12001617013 12001616039 12001616073 12001616041 12001616045	Dual Axis Solar Tracker	2020

M-Tech

Name of students	University roll	Name of the supervisor	Title of the thesis	Year
Lalit Pratim Das		Dr. Sourav Paul	Automatic Generation Control of Interconnected Hydro-Thermal System by using Chemical Reaction Optimization	2015
Aparna Maji	12013414004	Dr. Susanta Dutta & Dr. Sourav Paul	Application of Evolutionary Optimization for Small Signal Stability of Power System	2016
Shahanshah Alam	12013417003	Dr. Sourav Paul	Optimal Tuning of Transient Stability Constraint Optimal Power Flow Problem using a Grey Wolf Optimization	2019
Sujit Kumbhakar	12013418003	Dr. Sourav Paul & Dr. Sneha Sultana	Oppositional Krill Herd Algorithm for Solving Multi-Objective Optimum DG Emplacement problem in Radial Distribution Network	2020

Invited Lectures: NA

Participation in seminar/conference/symposium/workshop/discussion meeting.

Name of the event	Duration	Year	Organized by
Seminar on "Advances in Welding Technology"	07.02.2015	2015	Dr. B. C. Roy engineering College, Durgapur
Seminar on " Advances in Nano-Satellite Technology"	04.11.2015	2015	Dr. B. C. Roy engineering College, Durgapur

Participation in faculty development programmes

Name of the FDP	Mode	From Date	To Date	Duration	Year	Organized by
Modern trend in electrical engineering	Online	23.06.2020	27.06.2020	5 days	2020	Dr. B. C. Roy Polytechnic
Python	Online	26.06.2020	26.06.2020	1 day	2020	BCREC T&P team
Emerging Trends in Sensors, Security and Smart Automation Systems (ETSSSAS 2020)	Online	08.07.2020	12.07.2020	5 day	2020	B. P. Poddar Institute of Management & Technology
Recent Advances and trends in Machine Learning: Theory and Application	Online	07.12.2020	12.12.2020	5 Day	2020	Asansol engineering College

Organization of events (Dr. B. C. Roy Engineering College)

- Workshop on "Industry Ready Orientation program", 04.05.2019, 2019 of Phillips Carbon Black Ltd., Durgapur.
- Workshop on β-version of Computerized Web Based Management System (β-CWMS) on 06.02.2020 of MAKAUT.

Participation in administrative committees (selected)

- Core Committee T&P (Campus) from 2020.
- Joint Nodal Officer for Nodal Centre 2 (MAKAUT).
- NBA Coordinator from 2018.

Project Ideas Submitted to Govt. Agencies/ On-going Projects / Research Ideas under preparation & execution: NA

Membership of professional bodies: IEEE, IETE, IEI, CSI, MGMI etc.: NA