

Name: Dr. SNEHA SULTANA



Department: EE

Contact Nos.: 8900169170

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

Designation: ASSISTANT PROFESSOR

VIDWAN ID: 187564

Experience (Teaching):: 9 years

Date of Joining at the Present Institution: 15/01/2014

Examinations Cleared: NA

Qualifications Summary (Reverse chronological order):

Degree	Institute	From - To	Subjects
Ph.D	MAKAUT	29/07/2013 - 27/08/2019	Application of Evolutionary Algorithms for Optimal Location and Sizing of Distributed Generator and Capacitor in Radial Distribution Network
M-Tech	Dr. B. C. Roy engineering College	2010-2012	Electrical Engineering
B-Tech	Academy of Technology	2006-2010	Electrical Engineering
Higher Secondary	Boinchee B.L. Mukherjee,s free institution	2004-2006	Science
Madhyamik	Boinchee Binapani Balika vidyalaya	2003-2004	General

Experience Summary (In chronological order):

Designation	Organization	Date From - Date To
Assistant Professor	Bengal College of Engineering & Technology for	01.09.2012 - 11.01.2014

	Women, Durgapur	
Assistant Professor	Dr. B. C. Roy Engineering College, Durgapur	15.01.2014 - Till date

Specialization/Research Interest:

- Radial distribution system.
- Renewable distributed generator
- Reconfiguration of radial distribution system.
- Combined heat and power dispatch, and evolutionary algorithms.
- Automatic Generation Control.

Awards & Recognitions: NIL

Courses taught:

	Theory	Lab
B.Tech	Basic Electrical Engineering Circuit Theory Control System I Control System II Power System III Power Generation Economics	Basic Electrical Engineering Lab Control System Lab I Control System Lab II Seminar Lab Project Lab
M.Tech	Power System Operation and Control Power System Optimization	Project Lab

Online Mode of Teaching: .

- Through Google Meet
- Shared class notes to students.
- https://www.youtube.com/watch?v=4_F0yXk7bWc
- <https://www.youtube.com/watch?v=1NEVPSk-NkE>
- <https://www.youtube.com/watch?v=21zHN0HB96c>

Publications:

Journal:

1. **S. Sultana**, P.K. Roy "Optimal capacitor placement in radial distribution systems using teaching learning based optimization", International Journal of Electrical Power and energy System, Elsevier (SCI Journal with Impact Factor-4.418), Vol. 54, 2014, pp. 387-398, ISSN: 0142-0615, UGC care list(Gr. A), Link: <https://doi.org/10.1016/j.ijepes.2013.07.011>,
2. **S. Sultana**, P.K. Roy "Multi-objective quasi-oppositional teaching learning based optimization for optimal location of distributed generator in radial distribution systems", International Journal of Electrical Power and energy System, Elsevier (SCI Journal with Impact Factor-4.418), Vol. 63, 2014, pp. 534-545, ISSN: 0142-0615, UGC care list(Gr. A), Link: <https://doi.org/10.1016/j.ijepes.2014.06.031>

3. Provas kumar Roy, Chandan Paul, **S. Sultana**, "Oppositional Teaching Learning Based Optimization Approach for Combined Heat and Power dispatch", International Journal of Electrical Power and energy System, Elsevier (SCI with Impact Factor-4.418), Vol. 57, pp. 392-403, 2014, ISSN: 0142-0615, UGC care list(Gr. A), Link: <https://doi.org/10.1016/j.ijepes.2013.12.006>.
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), ISSN: 2160-9500, Vol 4, No. 2, pp. 22-35, 2015, UGC approved, Link: <http://services.igi-global.com/resolvedoi/resolve.aspx?doi=10.4018/IJEOE.2015040102>
5. **S. Sultana**, P.K. Roy "Oppositional Krill Herd Algorithm for Optimal Location of Distributed Generator in Radial Distribution System", International Journal of Electrical Power and energy System, Elsevier (SCI Journal with Impact Factor-4.418), Vol. 73, 2015, pp. 182-191, ISSN: 0142-0615, UGC care list (Gr. A), Link: <https://doi.org/10.1016/j.ijepes.2015.04.021>
6. **S. Sultana**, P.K. Roy "Oppositional gravitational search algorithm for optimal location of distributed generator", International Journal of Power and Energy Conversion, Inderscience (Scopus indexed journal) Vol. 6, 2015, DOI: 10.1504/IJPEC.2015.073612, pp. 281-325, DOI: DOI: 10.1504/IJPEC.2015.073612, UGC care list (Gr. A), Link: <https://doi.org/10.1504/IJPEC.2015.073612> .
7. **S. Sultana**, P.K. Roy "Krill Herd Algorithm for Optimal Location of Distributed Generator in Radial Distribution System", Applied Soft Computing, Elsevier (SCI Journal with Impact Factor-4.873), Vol. 40, 2016, pp. 391-404, UGC care list (Gr. A), Link: <https://doi.org/10.1016/j.ijepes.2015.04.021>.
8. **S. Sultana**, P.K. Roy "Oppositional krill herd algorithm for optimal location of capacitor with reconfiguration in radial distribution system", International Journal of Electrical Power and energy System, Elsevier (SCI Journal with Impact Factor-4.418), Vol. 74, 2016, pp. 78-90, ISSN: 0142-0615, UGC care list (Gr. A), Link: <https://doi.org/10.1016/j.ijepes.2015.07.008>.
9. **S. Sultana**, P.K. Roy, "Capacitor placement in radial distribution system using oppositional cuckoo optimization algorithm", International Journal of Swarm Intelligence Research, IGI Global Publication, Emerging Sources Citation Index (ESCI) Journal (Web of Science, Thomson Reuters), Vol. 9, 2018, pp. 64-95, DOI: 10.4018/IJSIR.2018070103, UGC care list (Gr. A), Link: <https://doi.org/10.4018/IJSIR.2018070103>.
10. P.K. Roy , **S. Sultana** , "Optimal reconfiguration of capacitor based radial distribution system using chaotic quasi oppositional chemical reaction optimization", Microsystem Technologies, Springer (SCI Journal with Impact Factor-1.513) pp. 1-13, DOI: 10.1007/s00542-020-04885-8, UGC care list(Gr. A), Link: <http://link.springer.com/article/10.1007/s00542-020-04885-8> .

Conference:

1. **S. Sultana**, P.K. Roy, "Optimal allocation of capacitor in radial distribution systems using oppositional krill herd algorithm," Proc. of Michael Faraday IET International Summit 2015, IET Conference, Kolkata, 12-13 September, 2015, Electronic ISBN: 978-1-78561-186-5, DOI: [10.1049/cp.2015.1681](https://doi.org/10.1049/cp.2015.1681),
2. **S. Sultana**, P.K. Roy, "Optimal allocation of distributed generator using chemical reaction optimization," Proc. of FICTA-2015, Springer, 16-18 November 2015, National Institute of Technology, Durgapur. ISBN 978-81-322-2695-6 (eBook), DOI: [10.1007/978-81-322-2695-6_23](https://doi.org/10.1007/978-81-322-2695-6_23).
3. S. Roy, **S. Sultana** and P.K. Roy, "Oppositional cuckoo optimization algorithm to solve DG allocation problem of radial distribution system", Proc. of RDCAPE-2015, IEEE Conference, 12-13 March 2015, Noida, India, Electronic ISBN: 978-1-4799-7247-0, DOI: [10.1109/RDCAPE.2015.7281367](https://doi.org/10.1109/RDCAPE.2015.7281367).
4. **S. Sultana**, S. Roy and P.K. Roy "Optimal location of capacitor in radial distribution network using chemical reaction optimization algorithm," Proc. of C2E2-2016, Taylor & Francis, 15-16 January, 2016, Supreme Knowledge Foundation Group of Institutions, Hooghly, India, ISBN: 978-1-138-02877-7, DOI:[10.1201/b20012-27](https://doi.org/10.1201/b20012-27).
5. **S. Sultana**, S. Singh, R. K. Ranjan, S. K. Sharma and P.K. Roy "Chemical reaction optimization to solve reconfiguration problem along with capacitor of radial distribution system," Proc. of CICBA 2018, Springer, 27-28 July, 2018, Kalyani Government Engineering College, Kalyani, India, Online ISBN: 978-981-13-8578-0, DOI: <https://doi.org/10.1007/978-981-13-8578-0>.

Book: NIL**Book Chapter:** NIL**Supervision of Ph.D/M.Tech / B.Tech Projects:****For Ph.D :** NIL**Projects:****M.Tech:**

Name of the student	University roll number	Name of the supervisor	Title of the Project	Year
Santanu Roy	12013413013	Dr. Sneha Sultana	Oppositional Cuckoo Optimization Algorithm (OAOA) to solve DG Allocation Problem in Radial Distribution System	2015
Sujit Kumbhakar	12013418003	Dr. Sneha Sultana and Dr. Sourav	Oppositional Krill Herd Algorithm for solving Multi-objective optimum DG	2020

		Paul	Emplacement problem in Radial Distribution Network	
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B.Tech:

Name of the student	University roll number	Name of the supervisor	Title of the Project	Year
Sherya Shree Das Anindita Bhattacharjee Tanushree Chandra Sunil Kumar Sharma Rahul Vishwakarma	12001612135 12001612127 12001612137 12001612136 12001612131	Dr. Sneha Sultana	Solar and Battery Mobile Charger	2015
Dipanjana Mondal Siladitya Ghosh Shubhankar Pal Sanjib Das Snehasish Mondal Chittabrata Kundu Subrata Mandal	12001613132 12001612098 12001612096 12001612080 12001612099 12001613129 12001612107	Dr. Sneha Sultana	Temperature Based Speed Control of an AC Induction Motor	2016
Neyaz Ahmad Nishant Singh Nitish Kumar Prabhanjan Kumar Roshan Kumar Singh Rounak Srivastava	12001613061 12001613065 12001613066 12001613070 12001613086 12001613087	Dr. Sneha Sultana	Next Generation Wireless Car charging System Model	2017
Aslam Parvej Faisal Quddus Gaurav Kumar Singh Manoj Kumar Dan Arpan Roy Gourab Sarkar	12001614025 12001614038 12001614039 12001614053 12001615125 12001615129	Dr. Sneha Sultana	Project on Electric Traction with Anti Collision Control and Line Cutter	2018
Shivam Kumar Singh Ravi Kant Ranjan Shubham Kumar Sharma	12001615083 12001615070 12001615086	Dr. Sneha Sultana	Home Automation using Arduino	2019
Rajnish Kumar Jha Sourav Mondal Swati Priya Susmita Gupta	12001615067 12001615100 12001615117 12001615115			
Richa Singh Kumari Tanushree Indu Kumari Arpita Biswas	12001616066 12001616099 12001616108 12001616122	Dr. Sneha Sultana	Arduino Based Alcohol Detector	2020

Anupam Kumari	12001616125			
Aditi Kumari	12001616137			
Vishal Kumar	12001617015	Dr. Sneha Sultana	Speed Control of DC Motor using Pulse width Modulation	2021
Tirthanku Sau	12001617020			
Vikash Chauhan	12001617016			
Naveen Kumar Mishra	12001617050			
Tuntun Sah	12001618019			
	12001617019			

Invited Lectures: NIL

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

Workshop:

Name of the event	duration	Year	Organized by
Advanced Algorithm & Optimization (AAO-2014)	15th -19th Sept.	2014	National Institute of Technology Durgapur

Seminar:

Name of the event	duration	Year	Organized by
Seminar on "Advances in Welding Technology"	7 th February	2015	Dr. B. C. Roy Engineering College, Durgapur
Seminar on "Advances in Nano-Satellite Technology"	4 th November	2015	Dr. B. C. Roy Engineering College, Durgapur

Participation in faculty development programmes:

Name of the faculty development programmes	Online	From Date - To Date	Duration	Year	Organized by
Modern Trends in Electrical Engineering	Online	23/06/2020-27/06/2020	Five days	2020	Dr. B. C. Roy Polytechnic
TCS digital workshop	Online	26/06/2020	One day	2020	Dr. B. C. Roy Engineering College - Placement Cell
Emerging Trends in	Online	8-12th July, 2020	Five days	2020	Organized by Electrical Engineering

Sensors, security, and small Automation Systems (ETSSAS 2020)					B. P. Poddar Institute of Management & Technology.
Advances in Technologies, evolving new dimensions in e-society.	Online	2-6th September, 2020.	Five days	2020	Organized by department of CSE, JIS college of Engineering.

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

Name of the event	Date	Year
Industry ready orientation program	04/05/2019	2019

Participation in administrative committees (selected) :

- Working as a departmental co-ordinator of T & P cell.

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

Membership of professional bodies: IEEE, IETE, IEL, CSI, MGMI etc: NIL