Saket Gupta

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EDUCATIONAL QUALIFICATIONS:

Degree / Certificate	Institute / School	Year	CGPA / Percentage
PhD (Thesis Submitted)	Delhi Technological University (DTU) (formerly Delhi College of Engg. DCE)	2017-2022	8.0
M.E.	Madhav Institute Technology and Science (MITS) Gwalior, (MP)	2013-2015	8.3
B.E.	Samrat Ashok Technological Institute, (SATI) Vidisha, (MP)	2008-2012	72.3%
12th (Intermediate)	Govt. H.S.S, Datia (MP)	2007	53%
10th (Matriculation)	Adarsh Vidya Mandir, Datia, (MP)	2005	60%

PhD Thesis Title **"Investigation on Evolutionary Computing Based Approach for Optimal Power Flow Solution".**

RESEARCH EXPERIENCE:

July 17 to April 22 Ph.D. Research Scholar, Department of Electrical Engineering, DTU Delhi, New Delhi.

Aug 2013- June 2015 Teaching Assistant, Department of Electrical Engineering Madhav Institute Technology and Science, Gwalior (M.P).

ACADEMIC EXPERIENCE:

Aug 16 to May 17 Assistant Professor, Department of Electrical Engineering, Madhav Institute of Technology and Science, Gwalior (M.P.), India.

Jan 16 to July 16 Assistant Professor, Department of Electrical Engineering, CCET Bhilai- Chhattisgarh, India.

ADMINISTRATIVE EXPERIENCE

Member of Organizing Committee (ELSEVIER Conference) IEEEC-2021 – New Delhi, Delhi

Co - Editor (IEEE Conference) ICPEICES 2018 – New Delhi, Delhi

- Managed Accommodation and Transportation of around 300 people of 2nd IEEE International Conference Organized by Electrical Engineering Department of Delhi Technological University.
- Co-Session Chair of IEEE conference ICPEICES 2018

Residential Warden, From 1 Aug 2016 to 31 May 2017
Hostel No-5, MITS Gwalior (M.P)

Responsibilities

- I am responsible for 120 B.E. student residents.
- To ensure the general well-being in their hall and to handle situations of emergency as and when these arise.
- To promote social life, to exercise discipline and to effect pastoral care of student residents.

Assistant Warden, From 1-Jan- 2016 to 30-July-2016
CCET Bhilai- Chhattisgarh

- I am responsible for 420 B. Tech. student residents.
- To work as required by the circumstances at any time of the day and the night. To stay in residence throughout the three university terms, in the Christmas and Easter vacations and also during the summer vacation to ensure that my responsibilities are fulfilled.

3rd Year Class-Coordinator, From Jan-2016 to July 2016
CCET Bhilai- Chhattisgarh

Final Year Class-Coordinator, From Aug 2016 to May 2017
MITS Gwalior (M.P.)

PUBLICATIONS:

- **International Journal**

1. Saket Gupta, Narendra Kumar & Laxmi Srivastava. An efficient Jaya algorithm with Powell's Pattern Search for optimal power flow incorporating distributed generation, Energy Sources, Part B: Economics, Planning, and Policy Vol. 16(8), pp. 759-786, 2021. Indexing: SCI, Impact Factor = 3.205.

2. Saket Gupta, Narendra Kumar & Laxmi Srivastava. Solution of optimal power flow problem using sine-cosine mutation based modified Jaya algorithm: a case study, Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, 2021. Indexing: SCI, Impact Factor = 3.447.

3. S. Gupta, N. Kumar, L. Srivastava, H. Malik, A. Anvari-Moghaddam, F. P. García Márquez. A Robust Optimization Approach for Optimal Power Flow Solutions Using Rao Algorithms. *Energies*. Vol. 14(17), pp 5449, 2021. Indexing: SCI, Impact Factor = 3.004.

4. S. Gupta, N. Kumar, L. Srivastava, H. Malik, A. Pliego Marugán, F. P. García Márquez. A Hybrid Jaya–Powell's Pattern Search Algorithm for Multi-Objective Optimal Power Flow Incorporating Distributed Generation. *Energies*, Vol.14(10), pp. 2831, 2021. Indexing: SCI, Impact Factor = 3.004.

5. Saket Gupta, Laxmi Shivastava "Application of multi-objective genetic algorithm for solving Optimal Power Flow problem", International Journal of Electrical and Electronics Engineering (IJEEE), Vol. 7, Issue 1, Jan-June 2015 Indexing: SCOPUS.

- **International Conferences:**

1. Saket Gupta, Narendra Kumar, Laxmi Shivastava "Solution of Single Objective and Multi-Objective Optimal Power Flow Problem using Chicken Swarm Optimization" Presented in 35th Indian Engineering Congress 18- 20 Dec 2020.
2. Saket Gupta, Narendra Kumar, Laxmi Shivastava "Bird swarm algorithm for solving Multi-Objective Optimal Power Flow problem", Presented in 2nd International Conference on Power Electronics, Intelligent Control and Energy system (ICPEICES-2018), DTU, Delhi, India.
3. Saket Gupta, Narendra Kumar, Laxmi Shivastava "Bat search algorithm for solving Multi-Objective Optimal Power Flow problem", Presented in International Conference on Manufacturing, Advance Computing, Renewable Energy and Communication, MARC, springer, 2018.
4. Saket Gupta, Laxmi Shivastava "Application of multi-objective genetic algorithm for solving optimal power flow problem", Presented in International Conference on Recent Innovations in Science, Engineering and management (ICRISEM), ISBN: 978-81-931039-4-4.

- **National conference**
1. Saket Gupta "Genetic Algorithm for solving Multi-Objective Optimal Power Flow Problem" Presented in 14th National Conference Technologia 2016 (NCFCSET-2016), CCET-Bhilai.
2. Saket Gupta, Shubhrajyoti kundu "Evolutionary Computing based Optimal Power Flow" Presented in National Conference on Innovations in Electrical Engineering, Department of Electrical Engineering, M.I.T.S.,10th-11th February, IIEE-2015.
3. Saket Gupta, Shubhrajyoti kundu "Optimum Location and Sizing STATCOM overview" Presented in National Conference on Innovations in Electrical Engineering, Department of Electrical Engineering, M.I.T.S.,10th-11th February, IIEE-2015.

REVIEWER OF

- Swarm and Evolutionary Computation Journal - Elsevier
- Artificial Intelligence Review, Springer
- ISA Transactions, ELSEVIER
- International Journal of Applied Power Engineering (IJAPE)
- International Journal of Electrical and Computer Engineering (IJECE)
- IEEEC-2021
- ICPEICES 2018

AWARD/ HONORS/SCHOLARSHIP

- **Received Best paper award** in Electrical Division in 35th Indian Engineering Congress
- **Delhi Technological University** written test for PhD in Electrical Engineering (**Rank-1**, Offer Teaching cum Research Fellowship (TRF)
- Full time PhD scholarship, awarded by DTU
- Received MHRD scholarship for M.E.

SUMMER/ WINTER SCHOOL/ TRAINING PROGRAM ATTENDED

1. Attended One Week Short Term Training Program on "Nature Inspired Optimization Techniques for Engineering Applications" December 02th -06th, 2013 at MITS, Gwalior.
2. Attended 02 days' national workshop on "Quality in Technical Education: A Challenge" November 18th -19th, 2016 at MITS, Gwalior.
3. Attended 02 days' workshop on "Smart grid and the internet of thing" during February 02-03, 2017 at CPRI Bengaluru.
4. Attended one week GIAN Course on "Recent Trend in Power System Reliability Evaluation: Models Statistical Methods and Applications" during October 09th -13th, 2017 at DTU, New Delhi.
5. Attended one week GIAN Course on "Recent Trend in protection of Micro-Grids With high DER penetration: Issues, Challenge and Mitigation" February 12th -16th, 2018 at DTU, New Delhi.
6. Attended 01 days Joint Workshop on "Patent Filing Procedure" May 28, 2018 Jointly Conducted by RGNIIPM, Nagpur and DTU, New Delhi.
7. Attended TEQIP III Sponsored One Week Faculty Development Programme on "Recent Research Direction and Key Concepts in Electrical Engineering" December 02th -06th, 2018 at DTU, New Delhi.

Declaration

I hereby declare that all the particulars above are true to the best of my knowledge and understanding.

Saket Gupta