

Faculty Profile

Name : Dr. Nidhi Gupta
Designation : Assistant Prof.
Qualifications : PhD
Phone : 01125552667 Extn:133
Email : nidhi@msit.in
Area of Interest/Specialization: Power System / Renewable Energy
and Battery energy sources
Experience : 20 years and six months



Employment Record

S No.	From [Month &Year]	To [Month &Year]	Employer Name	Positions Held	No of Years
1	January 2011	Till date	MSIT, GGSIPU	Assistant Prof.	10
2	September 2007	January 2011	GPMCE, GGSIPU	Sr. Lecturer	4
3	January 2002	September 2007	GPMCE, GGSIPU	Lecturer	5

Google scholar link : <https://scholar.google.co.in/citations?user=MIqXv6IAAAAJ&hl=en>

Key Publications

1. Nidhi Gupta, Narendra Kumar, B. Chitti Babu “JAYA Optimized Generation Control Strategy for Interconnected Diverse Source Power System with Varying Participation” Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, Taylor and Francis, March 2022, 31;44(1):1813-29. SCI, Impact Factor – 3.447,. ISSN: 1556-7036 (Print) 1556-7230 (Online) , DOI.org/10.1080/15567036.2019.1646354.
2. Nidhi Gupta, Narendra Kumar “Particle Swarm Optimization based Automatic Generation Control of Interconnected Power System incorporating Battery Energy Storage System” Scopus indexed, Elsevier, Procedia Computer Science, Volume 132, 2018, Pages 1562-1569, ISSN: 1877-0509, UGC-46138, <https://doi.org/10.1016/j.procs.2018.05.120>, April 2018.
3. Nidhi Gupta, Narendra Kumar, “AGC of Three Area Interconnected Power System Incorporating SMES” in International Journal of Industrial Electronics and Electrical Engineering , UGC- 43965, ISSN(p)- 23476982, ISSN(E): 2349204X, VOL.6 , Issue- 1, Jan 2018.

4. Nidhi Gupta, "Simulation of PV system during partial shedding" Satyam-MSIT Journal of research, 2017, Vol. 6, 87-91, ISSN: 2319-7897.
5. Nidhi Gupta, "Footsteps Generating Electricity Using D.C. Motor" Satyam-MSIT Journal of research, 2016, Vol. 5, 28-32, ISSN: 2319-7897.

Papers presented in Conferences

1. Nidhi Gupta, Parveen "Comparative Analysis Of Design And simulation of DC-DC Boost converter" National Conference on Smart Energy, VLSI and embedded systems – 2021 (NCSEVES – 2021) , JSS academy of technical education, Noida on 24th September, 2021.
2. Nidhi Gupta, Narendra Kumar, Nisha Singh "PSO Tuned AGC Strategy of Multi Area Multi-Source Power System Incorporating SMES", International Conference on 2018 2nd IEEE International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES-2018), DTU Delhi, October 22nd -24th, 2018.
3. Nisha Singh, Narendra Kumar, Nidhi Gupta et. al "A Comparative Analysis of AGC of Two-area Hydro-Thermal Power System Interconnected by AC-DC Parallel Link in Restructured Power System" 2018 2nd IEEE International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES-2018) , DTU Delhi, October 22nd -24th, 2018.
4. Nidhi Gupta, Narendra Kumar presented the paper in the National Electrical Engineering Conference (NEEC-2011) held w.e.f. 16th -17th Dec, 2011 on "Power and Energy Systems for Tomorrow" at Delhi Technical University, Delhi.
5. Nidhi Gupta, presented the paper "Comparison of integral controller and optimal controller through AGC in interconnected thermal hydro thermal system" in the National Conference on Smart Energy – Generation, Promotion and Conservation held January 2010, at Chitkara University, Punjab.

Workshop attended

1. International workshop on "Computational Intelligence – Theories Application and Future" at IIT Delhi, on 13-14th July 2013.
2. Workshop on sensitisation of university administration : gender, disability and social inclusion" organised by Equal opportunity cell, DTU on 24th July 2019.
3. Workshop on Digital literacy and online safety" organised by DTU on 9th April, 2019.
4. Matlab and Simulink For Engineering Education on 24th sep'2013.
5. Online National Workshop on Grid Power Electronics Technology held at IITDM Kancheepuram, Chennai during 18-19, Feb 2022.

6. The IPR awareness/training program under the special mission called “National Intellectual Property Awareness Mission (NIPAM)” at Maharaja Surajmal Institute of Technology on 05/01/2022.

Awards and Recognitions

1. Under My mentorship students of EEE are awarded as second prize in Inter-college B.Tech (EEE) Major project competition 2017 in GGSIP University entitled “Hybrid renewable energy source stand-alone system”.

Memberships of Professional bodies –

1. IEEE member
2. IAENG member

Patent

1. Patent is published with a title “Design and development of IOT based passenger counting in transportation System” dated 29-10-2021 and application number 202111047869.
2. Patent is published with a title “System to manage magnetic detachable lamp” dated 24-06-2022 with application number – 202211034652.

Other Contributions –

1. Member of organizer committee in International Conference on 2018 2nd IEEE International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES-2018), DTU Delhi, October 22nd -24th, 2018.
2. Member of ISO Committee since 2013.
3. Member of All AICTE, GGSIPU and Govt. schemes Committee (19-20, 20-21)
4. Training Incharge of V sem EEE students (18-19, 19-20, 21-22).
5. Project Incharge (17-18).
6. Member of Lab Incharge of Power Electronics Lab since 2011.
7. Member of College Magazine (17-18).
8. Member of Discipline / Anti Rasgging Cell (16-17, 18).
9. Member of Student Grievances committee (21-22)
10. Conveyer of Library Committee (21-22).
11. Subject coordinator for Power Electronics (16-17,17-18)
12. GGSIPU paper setter .

Supervised B.Tech project

1. Advanced Blind stick with Voice Module
2. Speed control of single phase Induction motor
3. Hybrid renewable energy source stand-alone system
4. Simulation of PV system during partial shading
5. Ultrasonic range finder
6. Comparative Analysis of Design and Simulation of DC-DC Boost Converter
7. Speed Regulation of fan using TRIAC.
8. Face detection using neural network
9. Video processing based adaptive traffic control
10. Piezo energy generation & train gate control system
11. Simulation of Load frequency control in microgrid
12. E-Bicycle
13. Mag tech led