



## **Dr. Nidhi Gupta**

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**Objective** To attain good position and maintain cordial relationship in Academic Institution by giving the practical knowledge which makes the student's career progressive.

**Teaching Experience** 21 years and nine 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.	12
2	September 2007	January 2011	GPMCE, GGSIPU	Sr. Lecturer	4
3	January 2002	September 2007	GPMCE, GGSIPU	Lecturer	5

**Educational Qualification** **PHD. (2022)** - PhD in Power System from DTU , Delhi.  
**M.E.**(2003-2006) in Power Apparatus And System from D.C.E.  
**B.Tech**(1997-2001) in Electrical Engg., Punjab Technical University, Jalandhar (Pb.)

**Area of Interest/Specialization:** Power System / Renewable Energy and Battery energy sources

### **Key Publications In Journal**

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 2.902, 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>, 2022.
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.

- Nidhi Gupta, “Fuzzy controlled AGC Strategy of Two Area Interconnected Thermal Power System Incorporating SMES”, 2021, MSIT Journal of Research –SATYAM, Vol. 9 (2020-21), ISSN: 2319-7897, 109-114.
- Nidhi Gupta and Shaifali M. Arora, “A Novel Jaya Based Automatic Generation Control of Two Area Interconnected Power System”, Accepted for publication in Indian Journal of Science & Technology, UGC, Print ISSN : 0974-6846, Online ISSN : 0974-5645, 2022. <http://dx.doi.org/10.17485/IJST/v15i47.1430>

### **Key Publications In Conferences**

- 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 24<sup>th</sup> September, 2021.
- 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 22<sup>nd</sup> -24<sup>th</sup>, 2018.
- 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 22<sup>nd</sup> -24<sup>th</sup>, 2018.
- 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.
- 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.

### **Awards and Recognitions**

- 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”.
- Dr. Nidhi Gupta was awarded with Research Excellence Award, MSIT (2022) for an outstanding contribution to the quality of research

### **Memberships of Professional bodies –**

- IEEE member
- IAENG member
- ISTE

### **Patent**

- 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.
- Patent is published with a title “System to manage magnetic detachable lamp” dated 24-06-2022 with application number – 202211034652.
- Patent is published with a title “Early flood detection system using internet of things (IOT)” dated 20-01-23 with application number – 202311004108.

### **Outreach Activity Involvement (Till Date)**

- 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 22<sup>nd</sup> -24<sup>th</sup>, 2018.

### **MSIT Institutional Duties**

- a. Member of Discipline / Anti Ragging Cell (16-17, 18-19)
- b. Member of College Magazine (17-18)**
- c. Member of All AICTE, GGSIPU and Govt. schemes Committee (19-20, 20-21)
- d. Member of Student Grievances committee (21-22) (22-till now)
- e. Conveyer of Library Committee (21-22) (22-till now)
  - f. Member of Anti tobacco (23-till now)

### **MSIT Departmental Duties**

- a. Member of ISO Committee 2013-2023.
- b. Training Incharge of EEE students (18-19, 19-20, 21-22, 22-23).
- c. Project Incharge (17-18)
- d. Departmental Library Incharge (21-22) (22-till now)
- e. Faculty Achievements Data record In charge - FDP/Seminar/Workshops/Awards (2018-2023)
- f. Lab Incharge of Power Electronics Lab since 2011.
- g. Departmental Laboratory Incharge (2023)

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