




JSS Mahavidyapeetha
JSS Academy of Technical Education, Noida
Department of Electrical Engineering



FACULTY PROFILE

1. Personal Details

NAME	NIRMAL KUMAR AGARWAL	
DEPARTMENT	ELECTRICAL ENGINEERING	
DESIGNATION	ASSISTANT PROFESSOR	
PHONE	8287918529	
EMAIL ID	nirmalkragarwal.eed@jssaten.ac.in	
Date of Joining (JSSATEN)	07/04/2011	

2. Experience

Total Experience in Years 13.6	Teaching: 13.6 Years	Industry: NIL	Research: 03 Years
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3. Qualifications

COURSES	SPECIALIZATION	Year of Award	INSTITUTION	UNIVERSITY
B.Tech.	Electrical Engineering	2005	Laxmi Devi Institute of Engineering & Technology, Alwar	Rajasthan University, Jaipur
M.Tech.	Advanced Power System & Control	2008	N.I.T. Hamirpur, (HP)	N.I.T. Hamirpur, (HP)
Ph.D.	Electrical & Electronics Engineering	Pursuing	G D Goenka University, Gurugram	G D Goenka University, Gurugram (Haryana)

4. Research & Publications

	INTERNATIONAL	NATIONAL
Papers Published in Web of Science indexed Journals	01	
Papers Published in SCOPUS indexed Journals	02	

Papers Published in other Journals	1	
Papers Presented in Conferences / Symposium	05	02
Books / Book chapters Published	NIL	
	Name of the book: NIL Publisher: NIL Year of Publication: NIL	

5. Research Guidance

PhD Guide? Give field & University	NIL	NIL
Projects Guided	Ph.D. Awarded: NIL Guiding: NIL	Projects at Master's Level: NIL Projects at Bachelor's Level: 16

6. Grants

i. Funds Received (Projects)

Project Name	Grant Amount	Date of receiving the Grant	Duration	Grant issuing authority/ Body / Organization
NIL				

ii. Patents

Sl. No.	Title Details	Details of award of patent / Filed
1	Intelligent controlling and monitoring of charging and discharging of electric vehicle batteries	Published:26/02/2021
2	Detection and monitoring of Covid-19 from smart phone and digital clock using intelligent technique	Date of filing: 12/11/2020

iii. Consultancy

Title of the work	Amount in Rs.	Date of receiving the Grant	Duration	Grant issuing authority/ Body / Organization
NIL				

7. Awards Received

Awards "Best Paper Award"	NIL
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8. Publications

i. International Journals

Sl. No.	Title of the paper	Name(s) of Author(s)	Name of the Journal	Volume No. Issue No. Year	WOS / Scopus / Both	Impact Factor	Publisher
1	MPPT Based PMSG Wind Turbine System Using Sliding Model Control (SMC) and Artificial Neural Network (ANN) Based Regression Analysis	Nirmal Kr. Agarwal, P K Sadhu, S Chakraborty	IETE Journal of Research		SCI		Taylor & Francis
2	Smart Grid in Distributed System: A Review	Abhinav Saxena, Nirmal kumar Agarwal, Sudhanshu, Rakesh	Journal of mechanics of continua and mathematical sciences, 2020	Accepted	WoS & ESCI	accepted	Journal of mechanics of continua and mathematical sciences
3	Optimal Converging distributed load allocation of three generating units using Genetic Algorithm (GAs)	Abhinav Saxena, Nirmal Kumar Agarwal, Prashant, Md. Abul Kalam, Nitin K Pal	Baltica Journal (Publisher Thomson and Router)	Vol 33, Issue 12	Both scopus & SCI	1.037	BALTICA Journal
4	Optimal Load Distribution of Thermal Generating Units using Particle Swarm Optimization (PSO)	Abhinav Saxena, Nirmal Kr. Agarwal, Prashant, Parveen P Terang	International Journal of Recent Technology and Engineering (IJRTE)	Volume-8, Issue-2S7, 2019	SCOPUS	0.16	Elsevier
5	Geothermal: Future Prospects	Nirmal Kr. Agarwal, V Kakkar	International Journal (IJAET)	Vol-4, Issue-2, Sept- 2012		3.43	IJAET
6	Improvement of Power System Operation Using Simulink Model of UPFC	Nirmal Kr. Agarwal, V Kakkar	International Journal (IJCS)	Vol-4, Issue-1		5.1	Computer Science & Electronics Journals

ii. National Journals

Sl. No.	Title of the paper	Name(s) of Author(s)	Name of the Journal	Volume No. Issue No. Year	WOS / Scopus / Both	Impact Factor	Publisher
NIL							

iii. Conferences

Sl. No.	Title of the paper	Name(s) of Author(s)	Name of the Conference	Volume No. Issue No. Year	WOS / Scopus	Impact Factor	Publisher
1	Recent Trends on FACTS and DFACTS	N K Agarwal, Vinay Kakkar	International Conference on “Modern Electric Power Systems (MEPS) 2010	ISBN:978-83-921315-8-8			IEEE
2	Analysis of 3-phase Induction Motor in Different Speed Reference Frame Coordinates	Abhinav Saxena, Nirmal kumar Agarwal, Prashant	IEEE International Conference on Power, Control, Signals and Instrumentation Engineering (ICPCSI)	ISBN: 978-1-5386-0814-2 (DOI: 10.1109/ICPCSI.2017.8391772), June 2018	SCOPUS		IEEE Xplore
3	SHE PWM technique for three phase three level voltage source inverter	S. K. Bisoyi, N. K. Agarwal	IEEE International Conference on Power, Control, Signals and Instrumentation Engineering (ICPCSI)	ISBN: 978-1-5386-0813-5 (DOI: 10.1109/ICPCSI.2017.8392012)			IEEE Xplore
4	Comparative Analysis of Hydropower Plant Using MATLAB/SIMULINK	Abhinav Saxena, Nirmal kumar Agarwal, Rajesh	International Conference on Advances in Business and Engineering for Sustainability, ABES Ghaziabad	27-28 march 2018			UGC
5	Underground Cable Fault Detection Using Arduino and GSM (5 V D.C.)	Nirmal Kr Agarwal, Priya singh, Vijay tomar, Tushar jain, Shivam samrat	National Conference (NCSES), JSSATE Noida	ISBN: 978-93-5361-694-6, June,2019			National Conference (NCSES), JSSATE Noida

iv. Workshops /Conferences/FDPs Attended

Sl. No.	Name of the workshop / Conference	Organizer	Date
1	One week FDP on "Fuel powered, Hybrid Electric and Modern Vehicles"	Department of Automobile Engineering, VNRVJIET, Hyderabad	19 to 24 th July, 2021
2	One week FDP on "Innovation, Incubation, Start-ups: Prospects and Challenges"	Centre of Excellence for Research & Innovation, CT Inst. of Engg. Management and Tech., CT Group of Institutions, Shahpur, Jalandhar (Punjab)	12 th to 16 th July, 2021
3	One week FDP on "Future trends in Green Technology"	Energy Centre, MANIT, Bhopal (M.P.)	22 nd to 26 th June, 2020
4	Two-week FDP on "Green Energy Technologies for Sustainable Development"	jointly NIT Kurukshetra and GEC, Bikaner (RAJ).	11 th to 20 th June, 2020
5	One-week TEQUIP III STTP on "Life Cycle Analysis for Sustainability"	Engineering college Bikaner (Raj.)	27 th to 31 st May, 2020
6	Two-week online FDP on "Machine Learning and Its Applications"	Electronics and ICT Academy, IIT Roorkee	05 th to 14 th May, 2020
7	Two-week FDP on "Entrepreneurship"	NSTEDB, under the project of Department of Science & Technology (DST) Department of Science & Technology, Govt. Of India (GOI) at ABES Engg. College Ghaziabad, (UP)	02 nd to 15 th Jan, 2019
8	One Week FDP on "Sustainable & Reliable Solutions to Power Quality Problems in Smart Power System Network"	Dept of Electrical Engg., JSSATE, Noida sponsored by Dr. A P J AKTU, Lucknow (UP)	08 th to 13 th Oct, 2018
9	Two Week FDP on "Entrepreneurship"	NIESBUD, under the project of Department of Science & Technology (DST) Department of Science & Technology, Govt. Of India (GOI) at NIESBUD, Noida (UP)	12 th to 26 th Feb, 2018
10	One Week Quality Improvement Programme on "Basics of Cryptography and Information Security"	C-DAC, Noida	18 th to 22 nd Sep, 2017
11	One Week National Workshop "INSPIRE Science Camp-2016"	JSSATE, Noida under the project of Department of Science & Technology (DST)	26 th to 30 th Dec, 2016.
12	Two Week FDP on "Research	NITTTR Chandigarh	28 th Dec, 2015 to 08 th Jan,

	Methodology”		2016
13	Two Week FDP on “Power Generation, Transmission & Distribution”	Electrical Engineering Department, VGI, Greater Noida	15 th to 27 th June, 2015
14	One day IEEE UP Section “CCIP”	organized by JSSATE, Noida	02 nd March, 2015
15	One Week QIP on “Control System Techniques and their Applications”	Electrical Engineering Dept., at DTU Delhi	12 th to 18 th Dec, 2014
16	One Week QIP on “Renewable energy resources and their applications”	Energy Dept., at IIT Delhi	11 th to 17 th Dec, 2013
17	One Week Quality Improvement Programme on “Application of Solar system & Photovoltaics”	Energy Dept., at IIT Delhi	12 th to 18 th Dec, 2012

v. Workshops / Conference (Organized)

Sl. No.	Name of the workshop / Conference	Organized by	Date	Role
1	Two days national seminar on “Recent Technological Developments in the field of Electrical Engineering (RTDEE-2013)”	JSSATE, Noida	23-24 th August, 2013	Member of Organizing Team

vi. Conference Attended (those sponsored by AICTE / ISTE /IETE /TEQIP or any other sponsoring body)

Sl. No.	Name of the workshop / Conference	Organizer	Date
NIL			

9. Details of NPTEL / COURSERA courses completed

Sl. No.	Name of the subject	Organized by	Date of completion / Award	Grade / Marks
1	Non-Conventional Energy Resources	NPTEL	10/06/2020	85%

10. Membership of Professional Bodies:

1. Senior Member of IEEE Power & Energy Society Membership (<u>Member No. 93372452</u>)

11. Any other information you will like to share about your professional experience: NIL