




Faculty Profile on University Website

www.mjpru.ac.in

Title	Dr.	First Name	Desh Deepak	Last Name	Sharma	Photograph
Designation		Associate Professor				
Department		Electrical Engineering				
Address	Campus	Electrical Engineering Department MJP Rohilkhand University, Bareilly				
	Residence	1/54 Suresh Sharma, Bareilly				
Mobile No.		7906950194				
Email ID		Personal	deshdeepak101@gmail.com			
		University Domain	desh.sharma@mjpru.ac.in			
Professional Networking ID, i.e. LinkedIn, Twitter etc.						
Educational Qualifications (Graduation Onwards)						
Course/Degree	Institution	Year	Details/Thesis Topic/Subjects			
B.E.	M.M.M. Engineering College , Gorakhpur	1993	Electrical Engineering			
M.Tech	N.I.T. Kurukshetra	2000	Control System			
Ph.D.	IIT Kanpur	2016	Development of distributed control schemes for energy storage systems using distribution system load patterns			
Career Profile						
Organization / Institution	Designation	Duration	Nature of Duties			
MJP Rohilkhand University, Bareilly	Associate Professor	04 yr	Teaching, research and administration			
---do---	Reader	05yr	Teaching, research and			

					administration
----- do -----	Sr. Lecturer	01y11m			teaching
-----do-----	Lecturer	05yr			teaching
AKG Engg. College, Ghaziabad	Lecturer	02yr			teaching
Research Interests / Specialization					
Distributed control system, model predictive control, adaptive control, robust optimal control, multi-agent system, Smart grid, energy storage system, demand side management, application of data mining techniques in load profiling and distribution system, distributed control schemes for distributed generation and energy storage systems, cyber-physical system, and cyber security issues in power system. Blockchain based peer to peer energy transactions, smart contracts, and energy crypto currencies.					
Research Experience in Years					
05					
No of Research Scholars Successfully Guided					
Name of Programme	Awarded		Under Supervision		
Ph.D.			01		
M.Phil.					
Dissertation (M.Ed./M.A.)					
Researcher/ Expert ID	Scopus	Orchid	Publons	Vidwan	Google Scholar
		https://orcid.org/0000-0003-4512-4878	https://publons.com/researcher/1416710/desh-deepak-sharma		
Teaching Experience (Subjects/Courses Taught)					
20 years					
Theory subjects : Control System, Nonlinear Control System, Basic Electrical Engineering, Network Analysis And Synthesis, Computer simulation of power system					
Labs : Control system lab, Power Electronics lab, Basic Electrical Lab, CCS Lab					

Honours/ Awards & Fellowship FOR OUTSTANDING WORK									
Name of Award/ Fellowship		Awarded By							
		Name of Governmental Agency		Name of Government Supported Organization/ Department		Name of International Recognized Body			
Best paper award		IEEE UPCON 2019							
Publications /Academic Activities (Numbers Only)									
Books & Monographs (Single Author)		Research Papers Published in International Journals	10	Papers Presented in Seminars/ Conferences	08	Seminars/ Conferences Organized	01	Research Projects (Completed)	
Books (Co-authored)		Research Papers Published in Other Journals		Seminar/ Conferences Attended		Workshops Organized	01	Research Projects (Ongoing)	05
Books (Edited)		Articles Published in Popular Fora, e.g., Websites, Blogs, Newspapers, Magazines etc.		Sessions Chaired in Seminars/ Conferences	04	Membership of Academic/ Professional Bodies	01	Foreign Countries Visited for Academic Assignments	
Chapters in Edited Books	1			Resource Lectures Delivered	01				

Details of Publications /Academic Activities (2010 Onwards)					
(a) Authored Books/ Monographs					
Name of Book	Year of Publication	Publisher	ISBN No		
(b) Edited Books					
Year of Publication	Title	Publisher	ISBN	DOI No.	Citations
(c) Papers Published in UGC Care Listed /Indexed/ Peer Reviewed Journals					
Year of Publication	Title	Name of Journal	ISSN No	Citations	Impact Factor
2017	Agent-Based Distributed Control Schemes For Distributed Energy Storages Under Cyber Attacks	IEEE Journal On Emerging And Selected Topics In Circuits And Systems	2156-3357	8	3.03
2016	Multi-Agent Based Distributed Control Of Distributed Energy Storages	Journal Of Energy Storage, Elsevier	2196-5420	12	3.76
2015	Aberration Detection In Electricity Consumptions Using Clustering Technique	International Journal Of Energy Sector Management, Emerald	2196-5420	03	1.5
2017	A Comparative Study On Various Dielectric Barriers And Their Effect On Breakdown Voltage	IET Journal, High Voltage	2397-7264	07	3.027
2015	Model Predictive Control System Design For Energy Management With Optimal Usage Of Battery Energy Storage System	International Journal Of Electrical And Electronics Engineers	2321-2055		
2020	Designing Community Energy Storage System For Peak Shaving Application With Load Pattern Data	Compliance Engineering Journal	0898-3577		
2020	Vulnerability Assessment In Power Network With Topological Approach	Compliance Engineering Journal	0898-3577		
2020	Hierarchical Structure of Active Distribution Network in Power System	International Journal of EEngineering and	2249-8958		

		Engineering and Advanced Technology			
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(D) Chapter/Paper Published In Edited Books

Publication		Title Of The Book	Title Of The Chapter	Name & Address of Publisher	Year	ISBN	DOI	Citation Google/web of science
National	International							
	International	Robust optimal planning and operation of electrical energy systems, Springer .	Robust Optimal Multi-Agent Based Distributed Control Scheme for Distributed Energy Storage System		2018	978-3-030-04		

(e) Invited as Resource Lectures Person/Examiner/Expert

Resource person	Detail of Event	Title of Lecture	Date	Institution
Dr. D. D. Sharma	International workshop on Agent based self- healing energy systems: Design and implementation	Distributed control agent based system	Feb 21-22, 2017	IIT Kanpur
Dr. D. D. Sharma	FDP on Recent Advances in Power Electronics	Recent developments on energy storage devices applications in India	July 12, 2018	SRMS College of Engineering and Technology, Bareilly
Dr. D. D. Sharma	Game theory in energy market	FDP on smart grid technology	Sept 2019	IET Lucknow
Dr. D. D. Sharma	Peer to Peer Energy Market with Renewable Energy	FDP on renewable energy	Feb 2020	REC Bijnor
Dr. D. D. Sharma	Blockchain based peer to peer energy trading	FDP on advancement in smart grid technology	Feb 2020	REC, Mainpuri

Dr. D. D. Sharma	Comparative Modeling of aging effect in different kind of battery	7th World Congress of Smart Energy	02/ 11/2017	BIT Group.
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(f) Seminars/Conferences/Workshops Organized

1. IEEE IEEE International Symposium , Internet of Things: Smart Innovation & Usages (28-Feb-2017 - 01-Mar-2017)
2. 05 days EDP on Solar Energy, Feb 17 -21,in collaboration with NISE sponsored by TEQIP-3
3. Hardware in Loop Typhoon HIL workshop, Nov 06-07, 2019 .
4. Workshop on Outcomes-Based Education & NBA Accreditation Process Feb 01 2018-05 ,2018
5. Six days International Faculty Development Program on “Recent Trends in Electrical Engineering and Applications”, Aug 08-13, 2020, Electrical Engineering Department, MJP Rohilkhand University, Bareilly

(g) Projects (With Title, Year, Grants, Funding Agency and Collaborations)

Year	Name of Project	Funding Agency	Amount	Duration	
				From	Till
02	Development Of Intelligent Energy System In the Building (Established Remote Monitoring Of Solar Power System)	MHRD,TEQIP-III	02 lacs	28/9/2018	28/9/2020
02	Solar PV Integration With Hybrid Multilevel Inverter For Efficient Standalone System	MHRD,TEQIP-III	17.3	18/6/2019	30/03/2021
02	Development Of Advanced Compact Sized EMI Filter	MHRD,TEQIP-III	12.8	18/6/2019	30/03/2021
02	Stochastic Charging Of Electric Vehicles In Distribution Grid	MHRD,TEQIP-III	11.6	18/6/2019	30/03/2021
05	Smart Grid Management System Against Cyber Vulnerabilities	TECHNOLOGY INNOVATION HUB, UNDER NM-ICPS, DST, NEW DELHI IN COLLABORATION WITH IIT	125Cr	Aug 2020	Aug 2025

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(h) Administrative Positions/Assignments Held				
Post	Organization	Duration		
		From	To	
HOD	Electrical Engineering Department	July 2009	July 2012	
HOD	Electrical Engineering Department	DEC 2016	DEC 2019	
TEQIP Nodal Officer Finance	MJP Rohilkhand University, Bareilly	January 2018	Continue	
(i) Seminar/Conference Presentations				
<ul style="list-style-type: none"> • D.D.Sharma, "Particle swarm optimization for PID controller : peak overshoot a performance criteria," National Conference on Mechatronics , NITTTTR, Chandigarh, March 8-9,2007. • D.D.Sharma, "Neural Network based prediction of feedback gain parameters in Networked Control System," 2011 3rd International Conference on Computer and Automation Engineering, Chongqing China,January 21-23, 2011. • D.D.Sharma, "Demand response an integral part of smart grid: A survey paper," National Conference on Power System,M.M.M.Engg. College ,Gorakhpur, March 21-23, 2011 • D.D.Sharma and Rajatvarshney," Estimation of parameters of venous return curves using neural network and particle swarm optimization", National Symposium on Instrumentation(NSI- 36), Invertis University, Bareilly , 20-22 oct,2011 • D. D. Sharma, S. N. Singh, "Electrical Load Profile Analysis and Peak Load Assessment using Clustering Technique", IEEE PES General Meeting -14, Washington D.C.,USA, July 2014. • D. D. Sharma, S. N. Singh, B. S. Rajpurohit, F. G. Longatt "Critical Load Profile Estimation for Sizing of Battery Storage System", IEEE PES General Meeting -15, Denver, USA July 2015. • D. D. Sharma, S.N. Singh, Jeremy Lin, ElhamForuzan, ``Distributed control scheme based on agents' behaviour for distributed energy storages," 2016 IEEE PES General Meeting, Boston, USA, July 2016. • D. D. Sharma, S. N. Singh, "Designing community energy storage system for peak saving application with load pattern data", International Conference GRIDTECH 2015, N. Delhi. • D. D. Sharma, S.N. Singh, Jeremy Lin, ElhamForuzan, ``Agent-based distributed control scheme for distributed energy storages based on forecast uncertainties ," 2017 IEEE PES General Meeting, Chicago, USA, July 2017. • ElhamForuzan, KavehNiayesh, Jeremy Lin, Desh Deepak Sharma , Hossein Sangrody, "Simulation and Modeling of Dielectric Barrier Impact on Heterogeneous Electric Field" 2017 IEEE International Conference on Electro Information Technology (EIT), Lincoln, Nebraska, U.S.A. May, 2017 • D. D. Sharma, "Optimal day ahead strategy based on capacity loss for battery energy storage system" IEEE International Conference on Power System, ICPS17, Pune. • D.D. Sharma, "The challenges in development of internet of things based smart power distribution system," IEEE UPCON 2018 • D. D. Sharma, "Receding horizon control strategy for energy storage devices incorporating capacity loss", IEEE UPCON 2018. • Vidhya T, Vaishnavi NK, P. Meena, Desh Deepak Sharma, "Remote Monitoring and Control of Electrical Systems with Augmented Reality and Digital Twin" 16th International Conference on Remote Engineering and Virtual Instrumentation, BMS College Banglore , 2019 • C. Lakshminarayana, A. Mohammed, Desh Deepak Sharma, "Design and Development of Solar Electric Hybrid Heated Bed Smart Electric Stove" 16th International Conference on Remote Engineering and Virtual Instrumentation, BMS College Banglore , 2019 				
(j) Memberships of Academic/Professional Bodies				

IEEE			
(k) Participation in Community Service / Exchange Programme / Consulting Activity			
(l) International Academic Exposure			
Worked at <i>Loyola Institute of Science and Technology, UNIVERSIDAD LOYOLA ANDALUCÍA, Seville, Spain</i>	Title: An Integrated Platform for Incredited FLEXibility in smart TRANSmision grids with STORAGE Entities and Large penetration of Renewable Energy Sources (FLEXITRANSTORE)	A European Union's Horizon 2020 research and innovation programme under grant agreement No 774407	Post Doc Research Fellowship 2019
(m) Any Other Details			
IEEE Smart Grid eNewsletter D.D. Sharma "Redefining Contingency Analysis for Development of Resilient Cyber Physical Power System, " October 2018 (https://smartgrid.ieee.org/newsletters/october-2018/1168-redefining-contingency-analysis-for-development-of-resilient-cyber-physical-power-system)			
Skill Development <ol style="list-style-type: none"> 1. Expertise on GAMS software 2. Expertise on Hardware in Loop Typhon Hill software and Hardware 3. Expertise on MATLAB software 			
New Lab Developments <ol style="list-style-type: none"> 1. Tinkering lab 2. Renewable lab 			

Signature of Faculty Member