



## Faculty Profile on University Website

www.mjpru.ac.in

Title	<b>Dr.</b>	First Name	<b>SULABH</b>	Last Name	<b>SACHAN</b>	Photograph				
Designation	<b>Assistant Professor</b>									
Department	<b>Department of Electrical Engineering</b>									
Address	<b>Department of Electrical Engineering , FET , MJP Rohilkhand University Bareilly-243006, Uttar Pradesh India</b>									
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Web-Page	<a href="mailto:Sulabh.iitr11@gmail.com">Sulabh.iitr11@gmail.com</a> <a href="https://scholar.google.co.in/citations?user=smlwoxcAAAJ&amp;hl=en">https://scholar.google.co.in/citations?user=smlwoxcAAAJ&amp;hl=en</a>									
Educational Qualifications (Graduation Onwards)										
Course/Degree	Institution			Year	Details/Thesis Topic/Subjects					
<b>B. Tech</b>	<b>KNIT SULTANPUR</b>			<b>2011</b>	Electrical Engineering					
<b>M. Tech</b>	<b>Indian Institute of Technology Roorkee</b>			<b>2013</b>	Power System					
<b>Ph.D</b>	<b>MNNIT Allahabad</b>			<b>2018</b>	Power System					
Career Profile										
Organization / Institution			Designation	Duration	Role					
<b>Faculty of Engineering &amp; Technology,MJP Rohilkhand University Bareilly</b>			<b>Assistant Professor</b>	<b>28/12/2017 to till date</b>	<b>Academic</b>					
Research Interests / Specialization										
<b>Power System, Deregulation in Electricity Market, Charging(G2V) &amp; Discharging (V2G) of Electric Vehicle, Charging Infrastructure Planning in India, Smart Grid</b>										
Teaching Experience (Subjects/Courses Taught)										
<ol style="list-style-type: none"> <li>1. Course Coordinator of Power System-2 (EE-302 T) in Academic Year 2017-18.</li> <li>2. Course Coordinator of Power System-1 (EE-305 T) in Academic Year 2018-19.</li> <li>3. Course Coordinator of Power System-2 (EE-302 T) in Academic Year 2018-19.</li> <li>4. Course Coordinator of Power System-1 (EE-305 T) in Academic Year 2019-20.</li> <li>5. Course Coordinator of Non-Conventional Energy Sources (EE-411 T) in Academic Year 2019-20.</li> <li>6. Course Coordinator of Power System Operation &amp; Control (EE-410 T) in Academic Year 2019-20.</li> <li>7. Course Coordinator of Elements of Electrical Machines (EE-202 T) in Academic Year 2019-20.</li> <li>8. Course Coordinator of Power System-1 (EE-305 T) in Academic Year 2020-21.</li> <li>9. Course Coordinator of Electrical Engineering Materials (EE-207 T) in Academic Year 2020-21.</li> <li>10. Course Coordinator of Power System Operation &amp; Control (EE-410 T) in Academic Year 2020-21.</li> </ol>										
Honors & Awards										
<ul style="list-style-type: none"> <li>• Gate Qualified in year <b>2011</b> with <b>661</b> gate score (<b>99.32 percentile</b>), <b>AIR (504)</b>.</li> <li>• Gate Qualified in year <b>2012</b> with <b>632</b> gate score (<b>99.01 percentile</b>), <b>AIR (980)</b>.</li> <li>• <b>Certificate of Participation in international conference on Innovative Smart Grid Technologies, ISGT- ASIA-2015, Thailand at Bangkok in year 2015.</b></li> <li>• <b>Institute Fellowship sanctioned by Ministry of Human Resource and Development, India.</b> Amount: Indian Rupees (IRs). 8, 000/- per month (July 2011- June 2013)</li> <li>• <b>Institute Fellowship sanctioned by Ministry of Human Resource and Development, India.</b> Amount: Indian Rupees (IRs). 28, 000/- per month (Jan 2014- Nov 2017).</li> <li>• <b>Centre for International Co-operation in Science (CICS)</b> travel grant to attend and present paper in IEEE ISGT ASIA, Nov. 04-06, 2015, Bangkok Thailand.</li> <li>• <b>Amount of 200 USD from IEEE Power Energy Society</b> for well deserving PhD student to presents a paper in ISGT, ASIA Conference 2015.</li> </ul>										
Publications /Academic Activities (Numbers Only)										
Books & Monographs	01	Research Papers Published in International Journals	05	Papers Presented in Seminars/ Conferences	14	Seminars/ Conferences Organized	04	Research Projects (Ongoing)	02	
Books (Co-authored)		Chapters in Edited Books	02	Sessions Chaired in Seminars/ Conferences	04	Workshops Organized	05	Membership of Academic/ Professional Bodies	03	

<p>Seminars/Conferences/Workshops Organized</p> <ul style="list-style-type: none"> <li>• International Conference ICAREMIT-2018, at MJP Rohilkhand University Bareilly.</li> <li>• International Conference ICAREMIT-2019, April 16-18, 2019 at MJP Rohilkhand University Bareilly.</li> <li>• IEEE International Conference on Advances in Computing, Communication &amp; Automation” (ICACCA- 2019), Nov29-30, 2019 at MJP Rohilkhand University Bareilly.</li> <li>• International Conference ICAREMIT-2020, Feb 01-03, 2020 at MJP Rohilkhand University Bareilly.</li> </ul>																								
<p>Memberships of Academic/Professional Bodies</p> <ul style="list-style-type: none"> <li>• IEEE Member (Membership No- 93064220)</li> <li>• IEEE Power and Energy Society</li> <li>• The Institution of Engineers (India) (Membership No- AM1918365)</li> </ul>																								
<p>Projects (With Title, Year, Grants, Funding Agency and Collaborations)</p> <p><b>Research Projects:</b></p> <p>1. Research Proposal entitled, “<b>Stochastic Charging of Electric Vehicles in Distribution Grid</b>” has been approved under “<b>TEQIP Collaborative Research Scheme</b>” to the team of following Collaborators:</p> <table border="0"> <tr> <td>• <b>Dr. SULABH SACHAN</b></td> <td><b>Principal Investigator</b></td> <td><b>FET MJP Rohilkhand University, Bareilly</b></td> </tr> <tr> <td>• Dr. DESH DEEPAK SHARMA</td> <td>Co-Principal Investigator</td> <td>FET MJP Rohilkhand University, Bareilly</td> </tr> <tr> <td>• Dr. SRI NIWAS SINGH</td> <td>Co-Principal Investigator</td> <td>Indian Institute of Technology, Kanpur</td> </tr> </table> <p><b>A grant of Rs. 1167000 (Rupees Eleven Lakh Sixty Seven Thousand Only) has been sanctioned for the project.</b></p> <p>2. Research Proposal entitled, “<b>Gas Evolution Through burning of agricultural waste and their impact on environment</b>” has been approved under “<b>TEQIP Collaborative Research Scheme</b>” to the team of following Collaborators:</p> <table border="0"> <tr> <td>• Mr. PRAKASH CHANDRA MISHRA</td> <td>Principal Investigator</td> <td>FET MJP Rohilkhand University, Bareilly</td> </tr> <tr> <td>• Mr. RAKESH MAURYA</td> <td>Co-Principal Investigator</td> <td>FET,MJP Rohilkhand University</td> </tr> <tr> <td>• Mr. ANURAG GAUR</td> <td>Co-Principal Investigator</td> <td>NIT Kurukshetra</td> </tr> <tr> <td>• Mr. ANKIT VARSHNEY</td> <td>Co-Principal Investigator</td> <td>FET MJP Rohilkhand University</td> </tr> <tr> <td>• <b>Dr. SULABH SACHAN</b></td> <td><b>Co-Principal Investigator</b></td> <td><b>FET MJP Rohilkhand University</b></td> </tr> </table> <p><b>A grant of Rs. 1430000 (Rupees Fourteen Lakh Thirty Thousand Only) has been sanctioned for the project.</b></p> <p>3. Research Proposal entitled, “<b>Different Charging Infrastructure for Electric Vehicle</b>” as Principal Investigator has been approved under <b>TEQIP-III</b> as <b>SEED GRANT</b>.</p> <p><b>A grant of Rs. 200000 (Rupees Two Lakh Only) has been sanctioned for the project</b></p>	• <b>Dr. SULABH SACHAN</b>	<b>Principal Investigator</b>	<b>FET MJP Rohilkhand University, Bareilly</b>	• Dr. DESH DEEPAK SHARMA	Co-Principal Investigator	FET MJP Rohilkhand University, Bareilly	• Dr. SRI NIWAS SINGH	Co-Principal Investigator	Indian Institute of Technology, Kanpur	• Mr. PRAKASH CHANDRA MISHRA	Principal Investigator	FET MJP Rohilkhand University, Bareilly	• Mr. RAKESH MAURYA	Co-Principal Investigator	FET,MJP Rohilkhand University	• Mr. ANURAG GAUR	Co-Principal Investigator	NIT Kurukshetra	• Mr. ANKIT VARSHNEY	Co-Principal Investigator	FET MJP Rohilkhand University	• <b>Dr. SULABH SACHAN</b>	<b>Co-Principal Investigator</b>	<b>FET MJP Rohilkhand University</b>
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• <b>Dr. SULABH SACHAN</b>	<b>Co-Principal Investigator</b>	<b>FET MJP Rohilkhand University</b>																						
<p>Administrative Positions/Assignments Held</p> <ol style="list-style-type: none"> <li>1. Faculty In charge of Twinning Activities with Mentor Institute BMS Bangalore.</li> <li>2. Member of Board of Studies in Electrical Engineering Department, MJP Rohilkhand University Bareilly From Academic Year 2018-19 till date.</li> <li>3. Member of Departmental Purchase Committee from Academic Year 2019-20 till date.</li> <li>4. Departmental NBA Coordinator for SAR submission.</li> </ol>																								
<p>Publications in Journals</p> <ol style="list-style-type: none"> <li>1. <b>Sachan, Sulabh</b> and N. Adnan, “Stochastic Charging of Electric Vehicles in Smart Power Distribution Grids” Sustainable Cities and Society, Elsevier, July, 2018. (SCI) (Impact Factor: 7.587)</li> <li>2. <b>Sachan S, Amini MH.</b> Optimal allocation of EV charging spots along with capacitors in smart distribution network for congestion management. Int Trans Electr Energy Syst, Wiley, 2020; 1–14. <a href="https://doi.org/10.1002/2050-7038.12507">https://doi.org/10.1002/2050-7038.12507</a> (SCI) (Impact Factor: 2.860)</li> <li>3. <b>Sulabh Sachan, Sanchari Deb, Sri Niwas Singh</b> “Different charging infrastructures along with smart charging strategies for electric vehicles”, Sustainable Cities and Society, Elsevier, Volume 60, September 2020, 102238 (SCI) (Impact Factor: 7.587)</li> <li>4. <b>Sulabh Sachan.</b> “ Integration of Electric Vehicles with Optimum Sized Storage for Grid Connected Photo-voltaic System” <i>Energy, Aims Press</i>, October,2017 ( E-SCI , Scopus)</li> <li>5. <b>Sachan S, Deb S, Singh SN, Sharma DD.</b> “Planning and operation of EV charging stations by chicken swarm optimization driven heuristics”, IET, Energy Conversion and Economics 2021; 1-9. <a href="https://doi.org/10.1049/enc2.12030">https://doi.org/10.1049/enc2.12030</a> .</li> </ol>																								
<p>Books: “Smart Charging Solutions for Hybrid and Electric Vehicles” edited by <b>Sulabh Sachan</b>, P. Sanjeevikumar, Sanchari Deb , Wiley , ISBN NO- 978-1-119-76895-1</p>																								

Publications in International Conferences

1. **Sulabh Sachan**, and Marta Zurek Mortka,” Fuzzy Logic Triggered Charging Infrastructures for Electric Vehicles” IEEE International Conference on Smart Technologies for Power, Energy and Control” (IEEE-STPEC 2020), at VNIT Nagpur, September 25-26, 2020.
2. Jerzy Ryszard Szymanski, Marta Zurek Mortka and **Sulabh Sachan**,” Simulation Research of Low-Voltage Modules of Rectifier in 3kV Railway Substation” IEEE International Conference on Smart Technologies for Power, Energy and Control” (IEEE-STPEC 2020), at VNIT Nagpur, September 25-26, 2020.
3. **Sulabh Sachan**, and Sanchari Deb,” Renewable based Charging Station for Electric Vehicles “IEEE International Conference on Advances in Computing, Communication & Automation” (ICACCA- 2019), at MJPRU Bareilly, India, Nov 29-30, 2019.
4. **Sulabh Sachan**, and Sanchari Deb,” Contribution of Electric Vehicles to Frequency and Voltage Control ancillary Services “IEEE International Conference on Advances in Computing, Communication & Automation” (ICACCA- 2019), at MJPRU Bareilly, India, Nov 29-30, 2019.
5. Sumit Mishra , Sahib Reddy , Saurabh Bharti , Sudhanshu , Payal, and **Sulabh Sachan** ,” Performance Index based Method to Sort Out the Severity of Lines “IEEE International Conference on Computational and Characterization Techniques in Engineering & Sciences (CCTES), at Lucknow, India, Sep 14-15, 2018.
6. **Sulabh Sachan**, and Nand Kishor,” A Probabilistic Approach for DG with Electric Vehicles “IEEE International Conference on Power Electronics, Drives and Energy Systems” (PEDES- 2018), at IIT Madras, India, Dec 18-21, 2018.
7. **Sulabh Sachan**, and Nand Kishor,” Optimum Sizing of Storage and Charging Strategy for Grid Connected Photo- voltaic System “International Conference on Smart Cities” (IEEE-TENSYMP 2017), at Cochin, Kerala, July 14- 16, 2017.
8. **Sulabh Sachan**, and Nand Kishor,” Charging of Electric Vehicles under Contingent Conditions in Smart Distribution Grids “IEEE International Conference on Power Electronics, Drives and Energy Systems” (PEDES- 2016), at Trivandrum, India, Dec 14-17, 2016.
9. **Sulabh Sachan**, and Nand Kishor,” Optimal Location for centralized charging of Electric Vehicle in distribution network “18th IEEE Mediterranean Electro technical Conference” (MELECON- 2016), at Limassol Cyprus, April 18- 20, 2016.
10. **Sulabh Sachan**, and Nand Kishor,” Optimal Location and Optimum Charging of Electric Vehicle based on Sensitivity Indices “International Conference on Innovative Smart Grid Technologies” (ISGT-ASIA 2015), at Bangkok Thailand, Nov 4-6, 2015.
11. **Sulabh Sachan**, and C P Gupta,” Influence of Optimally Placed TCSC on Social Welfare in Deregulated Market “International Conference on Electrical, Computer and Electronics Engineering and Technology” (UPCON-2015), at IIIT Allahabad, Dec 4-6, 2015.
12. **Sulabh Sachan**, and C P Gupta,”Analysis of Contingent Conditions in Power System”IEEE Conference, Students Conference on Engineering & System ( SCES-2014),MNNIT Allahabad, May 28-30,2014.
13. **Sulabh Sachan**, and C P Gupta, “Maximization of Social Welfare Considering Congestion in Deregulated Market“National Conference on Recent Trends in Energy Systems” (NCRTES-2013), at KNIT Sultanpur, April 5-6, 2013.
14. Jaswant Singh, Bindeshwar Singh, S. P. Singh, Ravi Chaurasia, and, **Sulabh Sachan** ”Performance Investigation of Permanent Magnet Synchronous Motor Drive using Vector Controlled Technique” 2<sup>nd</sup> International Conference on “Power Control & Embedded Systems”(ICPCES-2012) ,at MNNIT Allahabad ,Dec.17-19,2012.

Publications in Book Chapters

1. **Sulabh Sachan**, and Nand Kishor,” Optimal location and charging of electric vehicle with wind penetration “*ICT for Electric Vehicle Integration with the Smart Grid.*”, IET, **Editors: Nand Kishor and Jesús Fraile-Ardanuy** ,Dec, 2019 (**Book Chapter**)
2. **Sulabh Sachan**, and Nand Kishor,” Deploying stochastic coordination of electric vehicles for V2G services with wind “*ICT for Electric Vehicle Integration with the Smart Grid.*”, IET, **Editors: Nand Kishor and Jesús Fraile-Ardanuy** ,Dec, 2019 (**Book Chapter**)

**References:**

**1. Prof. S. N. Singh**

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**2. Dr. C. P. Gupta**

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