

Faculty Detail

Name: Dr. Jasmine Kaur

Designation: Assistant Professor

Department: Electrical Engineering

Research Interests: Microgrids, Deregulation of Power Market, Renewable Integrated Systems, Power System Optimization



| TEACHING EXPERIENCE | | |
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| DESIGNATION – FACULTY (On Contract) | | |
| INSTITUTE | SUBJECTS TAUGHT | DURATION |
| National Institute of Technology (NIT Hamirpur), H.P.-177005 | (i) Basic Electrical Engineering (Theory) (ii) Microprocessor Architecture & Interfacing (Theory) (iii) Power System Simulation MATLAB based (Lab) (iv) Basic Electrical Engg. (Lab) | 08-07-2019 to 20-05-2020 (Approx. 10 months) |
| DESIGNATION – ASSISTANT PROFESSOR | | |
| INSTITUTE | SUBJECTS TAUGHT | DURATION |
| University Institute of Technology, (UIT) Himachal Pradesh University, Shimla, H.P.-171005 | (i) Electromagnetic Field Theory (Theory) (ii) Basic Electrical Engineering (Theory) (iii) Electric Machines | 23-11-2020 to Present (Approx. 08 months) |

| ACADEMIC QUALIFICATIONS | | | | | | |
|--------------------------------|---------------|--|-------------|---|-------------------|--|
| Level | Degree | University | Year | Subject(s) | Fellowship | Division |
| Graduation | B.E. | UNIVERSITY INSTITUTE OF ENGG AND TECHNOLOGY, PANJAB UNIVERSITY, CHANDIGARH | 2012 | ELECTRICAL & ELECTRONICS ENGG. | ----- | FIRST DIVISION WITH HONOURS (76.37 %) |
| Masters | M.E. | THAPAR UNIVERSITY, PATIALA, PUNJAB | 2015 | POWER SYSTEMS | GATE | FIRST DIVISION (CGPI: 9.60) |
| Doctorate | Ph.D. | N.I.T HAMIRPUR, H.P. | 2019 | OPTIMAL OPERATION OF GREEN MICROGRIDS IN DEREGULATED ELECTRICITY MARKET {RENEWABLE ENERGY} | TEQIP-II | Ph.D. COMPLETED ON 12-12-2019. (COURSE WORK CGPA: 9.75) |
| EXAM CLEARED | GATE | ALL INDIA | 2013 | ELECTRICAL ENGG. | ----- | 96 Percentile |

| TRAININGS ATTENDED IN THE RELEVANT FIELD OF SPECIALIZATION | | | | |
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| TITLE | INSTITUTION | DURATION | | |
| | | FROM | TO | Duration (days) |
| SPEED CONTROL OF DC MOTOR FOR VARYING LOADS USING PWM TECHNIQUE THROUGH PIC MICROCONTROLLER | INDUSTRIAL PROJECT; INSTRUMENT DESIGN DEVELOPMENT CENTRE, MDIT LAB, IIT DELHI | 24.05.2010 | 09.07.2010 | 45 DAYS |
| DESIGN AND DEVELOPMENT OF REAL TIME OPERATING SYSTEM FOR DISPLAYING TWO CAMLINK IMAGES ON LCD | GLOBAL INTERNSHIP PROGRAM, IIT DELHI | 30.05.2011 | 13.07.2011 | 43 DAYS |

| MAJOR ACHIEVEMENTS | | |
|---------------------------|--|-----------------------|
| | SERVING AS MEMBER OF THE COMMITTEE (HP-PRIVATE EDUCATIONAL INSTITUTIONS REGULATORY COMMISSION) FOR ANALYZING THE DATA, PROCEDURE FOR DEGREE ISSUANCE AND SECURITY FEATURES BY PRIVATE UNIVERSITIES IN THE STATE | APRIL 2021 to Present |
| | SERVING AS COORDINATOR UNDER VILLAGE ADOPTION SCHEME (UIT, HPU) , ADOPTED VILLAGE GHANAHATTI, H.P. | SESSION 2020-21 |
| | SERVING AS EXTERNAL EXPERT IN PHD THESIS EVALUATION COMMITTEE (SHOOLINI UNIVERSITY) | JUNE 2021 |
| | SERVING AS SYLLABUS COORDINATOR FOR ELECTRICAL ENGG.BTECH, M. TECH AND PHD COURSE | SESSION 2020-21 |

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| | SERVED AS GENERAL SECRETARY OF IEEE STUDENT CHAPTER AT UIET-PANJAB UNIVERSITY CHANDIGARH | SESSION 2010-11 |
| | APPRECIABLE CONTRIBUTION FOR PARTICIPATION IN THE EVENT “PRESENT AROUND THE WORLD (PATW)” ORGANIZED BY IET STUDENT CHAPTER (THAPAR UNIVERSITY, PATIALA, INDIA) | SESSION 2013-14 |
| | APPRECIABLE CONTRIBUTION IN THE GIAN COURSE ON “PERMANENT MAGNET SYNCHRONOUS MOTOR AND BRUSHLESS DC MOTOR DRIVES SYSTEMS ORGANIZED BY NIT HAMIRPUR | 18-12-2017 to 29-12-2017 |
| | VALUABLE CONTRIBUTION IN ORGANIZING THE OBSERVANCE OF “ VIGILANCE AWARENESS WEEK ” ORGANIZED BY NIT HAMIRPUR | 26-10-2015 to 31-10-2015 |
| | VALUABLE CONTRIBUTION IN ORGANIZING THE SHORT-TERM COURSE UNDER TEQIP II ON “INTEGRATING RENEWABLE ENERGY SOURCES IN DEREGULATED POWER SECTOR” ORGANIZED BY NIT HAMIRPUR | 23-05-2016 to 28-05-2016 |
| | CONTRIBUTED AS ORGANIZER IN THE IEEE STUDENT CONFERENCE ON “COGNIZANCE OF APPLIED ENGINEERING & RESEARCH” HELD IN UIET, PANJAB UNIVERSITY, CHANDIGARH | 29-10-2010 |
| | ATTENDED ONLINE WEBINAR ON “ MOVING FROM KW TO KWh (ROOFTOP SOLAR PV ASSET STRATEGIES) ” CONDUCTED BY DEUTSCHE GESELLSCHAFT FUR INTERNATIONALE ZUSAMMENARBEIT GMBH AND SOLAR QUARTER | 26-08-2020 |
| | VALUABLE CONTRIBUTION IN ORGANIZING NATIONAL CONFERENCE ON INTEGRATED COMPUTATIONAL TECHNIQUES IN ELECTRICAL ENGINEERING ORGANIZED BY THAPAR UNIVERSITY, PATIALA | 18-01-2014 to 19-01-2014 |

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| | ATTENDED SHORT TERM COURSE ON “ECONOMIC OPERATION OF POWER SYSTEM WITH MATLAB APPLICATIONS ORGANIZED BY NIT HAMIRPUR | 19-06-2017 to 24-06-2017 |
| | SECURED RUNNER UP POSITION IN INTER-BRANCH BADMINTON TOURNAMENT ORGANIZED BY SPORTS DEPARTMENT, NIT HAMIRPUR | SESSION 2016-17 |

| RESEARCH STATISTICS | | | |
|---|------|--|--|
| International & National Journals (08) | | | |
| Authors | Year | Title | Journal (Indexing) |
| Jasmine Kaur, Yog Raj Sood, and Rajnish Shrivastava | 2019 | “Optimal Resource Management of Microgrids in a Competitive Market Environment Using Dual Layer Control Approach” | Electric Power Components and Systems, Taylor and Francis , Vol. 47, no. 14-15, pp. 1274-1286. ISSN: 1532-5008 DOI:10.1080/15325008.2019.1666438 (SCIE, SCOPUS) |
| Jasmine Kaur, Yog Raj Sood and Rajnish Shrivastava | 2019 | “Optimal Resource Utilization in a Multi-Microgrid Network for Tamil Nadu State in India” | IETE Journal of Research, Taylor & Francis , pp.1-11, ISSN: 0377-2063, DOI:10.1080/03772063.2019.1595182 (SCI, SCOPUS) |
| Om Prakash Yadav, Jasmine Kaur, Naveen Kumar Sharma and Yog Raj Sood. | 2019 | “Renewable Energy Management in Multi-microgrid Under Deregulated Environment of Power Sector” | Applications of Artificial Intelligence Techniques in Engineering, Springer, ISBN: 978-981-13-1819-1, pp.289-302,2019. DOI:10.1007/978-981-13-1819-1_28. (SCOPUS) |
| Jasmine Kaur, Yog Raj Sood and Rajnish Shrivastava | 2019 | “Emerging Green Energy Potential: An Indian Perspective” | Lecture Notes in Electrical Engineering, Springer, Applications of Computing, Automation and Wireless Systems in Electrical Engineering, 2018. Springer, Vol. 553, 2019, p. 91-96, Print ISBN: 978-981-13-6771-7, Online ISBN 978-981-13-6772-4, |
| Jasmine Kaur, Yog Raj Sood and Rajnish Shrivastava | 2017 | “A Two-layer Optimization Approach for Renewable Energy Management of Green Microgrid in Deregulated Power Sector” | Journal of Renewable and Sustainable Energy, AIP Publishing ISSN:1941-7012, Vol.9, no.6, p.065905. DOI:10.1063/1.4986342. (SCI, NAAS, SCOPUS) Impact Factor 1.337 |

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| Jasmine Kaur, Yog Raj Sood and Rajnish Shrivastava | 2016 | “Optimal Operation of Self-Sustainable Green Microgrid in Deregulated Power Sector” | Journal of Energy Environment and Carbon Credits, ISSN:2249-8621, STM Journals. 2016; 6(3): 19–25p. Impact Factor (SJIF:4.312) |
| Digambar Singh, Jasmine Kaur and Yog Raj Sood | 2016 | “Optimal Capacity of Pump Storage System for Standalone Green Microgrid Interconnection with Main Grid in Deregulated Power Sector” | Journal of Power Electronics & Power Systems, STM Journals. 2016; 6(2): 100–114p. |
| Ankur Maheshwari, Jasmine Kaur and Om Prakash Yadav | 2021 | “Review on Microgrids and Renewable Energy Scenario: An Indian Perspective” | Himalayan Journal of Engineering Sciences, Vol. 01, no. 01, March 2021. |
| International and National Conferences (08) | | | |
| Jasmine Kaur, Anuj Banshwar, Naveen K. Sharma, Yog Raj Sood, Rajnish Shrivastava. | 2018 | “Strategic Utilization of Resources in a Microgrid in an Uncertain Electricity Market,” | IEEE International Conference on Power Energy, Environment & Intelligent Control (PEEIC- 2018), organized by G.L. BAJAJ Institute of Technology & Management, Greater Noida, April 13- 14, 2018. (SCOPUS) |
| Anuj Banshwar, Naveen Kumar Sharma, Jasmine Kaur, Yog Raj Sood, Rajnish Shrivastava | 2018 | “Sequential Procurement of Energy and Operating Reserve under Competitive Electricity Market” | IEEE International Conference on Power Energy, Environment & Intelligent Control (PEEIC- 2018), organized by G.L. BAJAJ Institute of Technology & Management, Greater Noida, April 13- 14, 2018. (SCOPUS) |
| Naveen Kumar Sharma, Anuj Banshwar, Jasmine Kaur, Yog Raj Sood, Rajnish Shrivastava | 2018 | “Economic Profit Maximization by Optimal Allocation and Sizing of WPG in Double Auction Competitive Electricity Market” | IEEE International Conference on Power Energy, Environment & Intelligent Control (PEEIC- 2018), organized by G.L. BAJAJ Institute of Technology & Management, Greater Noida, April 13- 14, 2018. (SCOPUS) |
| Jasmine Kaur, Rahul Prashar, Naveen Sharma and Anuj Banshwar | 2021 | “A Review on Policies and Challenges Faced in Solar Photovoltaic Technology: Indian Perspective” | International Conference on Computing, Networks and Renewable Energy (CNRE-2021) |
| Jasmine Kaur, Yog Raj Sood, Rajnish Shrivastava | 2017 | “Renewable Microgrids in Deregulated Electricity Market” | Proc. of International Conference on Emerging Trends in Engineering Innovations & Technology Management (ICET: EITM – 2017), NIT Hamirpur, December 16-18, 2017. |

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| Digambar Singh, Jasmine Kaur and Yog Raj Sood | 2016 | “The Development and potential of Wind Power Sector in India” | IEEE International Conference on Electrical Power and Energy Systems (ICEPES – 2016), organized by MNIT, Bhopal, December 14-16, 2016. (SCOPUS) |
| Nikita Gupta, Sanjay Sharma, Jasmine Kaur | 2020 | “Review of inverter control algorithms in Grid-integrated Solar Photovoltaic system” | Second International Sustainability and Resilience Conference: Technology and Innovation in Building Designs |
| Anuj Banshwar, Naveen Sharma, Bharat Bhushan Sharma, Jasmine Kaur and Sujit Kumar | 2021 | “Competitive Evolution of Indian Power Sector” | International Conference on Computing, Networks and Renewable Energy (CNRE-2021) |
| Magazine article (01) | | | |
| Jasmine Kaur | 2020 | “Tapping into Potential: Renewables” | Electrical India |

PUBLICATIONS

- 1. SCI JOURNALS: 03**
- 2. REFERRED JOURNALS: 08**
- 3. CONFERENCE PRESENTATIONS: 08**

| PERSONAL INFORMATION | |
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| NAME | Dr. JASMINE KAUR |
| GENDER | FEMALE |
| DATE OF BIRTH | 03-04-1990 |
| E mail ID | jasminekaur.nith@gmail.com |
| GOOGLE SCHOLAR PROFILE | https://scholar.google.com/citations?user=BrFVTsUAAAAJ&hl=en&oi=ao |