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Dr. Manish kumar

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**CURRICULUM VITAE**

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## CURRICULUM VITAE



### **Dr. Manish kumar**

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### **Objective**

I will have to adopt the new concepts and things as I am a new face in this field. By doing so, I can keep myself updated. I will always learn innovative things. I will use my ideas and conceptions in order to get the fruitful results of my work

### **Academic**

#### **From March 2012 to 29 June 2018:**

**Ph.D:** **Electrical Engineering**  
Institute: - NIT Kurukshetra

#### **From July 2009 to June 2011:**

**M.Tech:** **Electrical Engineering** with specialization in Power system  
Institute: - NIT Kurukshetra

#### **From July 2004 to June 2007:**

**B.E:** **Instrumentation Engineering**  
Institute: - SLIET Longowal, sangrur, punjab  
University: - PTU

#### **From July 2001 to June 2004:**

**Diploma:** **Electrical Engineering**  
Institute: - Govt. poly. Sirsa  
Board: - Technical Board Haryana

#### **From July 2000 to June 2001:**

**Matriculation:** - Common Subjects  
School: - R.K.P Nehru park Sr. School Sirsa  
Board: - H.B.S.E

### **Thesis/ Project Under-taken in College**

- During Ph.D my research topic is **“Some aspects of renewable energy source integration in deregulated electricity market”**.
- During M. Tech my thesis topic is **“Fault on HVDC Transmission line”**.
- Simulation and Implementation of PWM triggering for thyristor using Microcontroller B.E. final year.

## Experience

- Work as a Asstt. Professor in Electrical Engg. Deptt. SOE&T, CUH on 27/3/2018 to till.
- Five year four month research as a Senior Research Fellow in NIT Kurukshetra.
- Two month teaching as a Asstt. Professor in Doon Vally Engg. College, Karnal.
- One year teaching as a guest Lect. in CDLM Engg.College Paniwala mota Sirsa.

## Publication

### Published in Journals:

1. Manish Kumar, K. S. Sandhu, Ashwani Kumar, “Wind speed variation impact on transmission loss reduction in electricity market”, **Procedia computer science, vol.70, pp-526-537, 2015. (Index in SCOPUS)**
2. Manish Kumar, Ashwani Kumar, K.S. Sandhu, “Optimal Location of WT based Distributed Generation in Pool based Electricity Market using Mixed Integer Non Linear Elsevier **Materials Today: Proceedings, vol.5, pp.445-457, 2018. (Index in SCOPUS):**
3. Manish Kumar, Ashwani Kumar, K.S. Sandhu, “Impact of distributed generation on nodal prices in hybrid electricity market”, **Elsevier Materials Today: Proceedings, vol.5, pp.830-840, 2018. (Index in SCOPUS)**
4. Manish Kumar, Karimula Polliseti, Ashwani Kumar, K.S. Sandhu, “Nodal Prices determination for Radial Distribution System with PV Power Integration using Optimal Power Flow Approach”, **accepted in Elsevier Materials Today: Proceedings (Index in SCOPUS).**
5. Manish Kumar, Karimula Polliseti, Ashwani Kumar, K.S. Sandhu, “Nodal Prices Determination with Wind Integration for Radial Distribution System”, **International Journal of Engineering, Science and Technology, vol.9,no.3,pp.11-21,2017 (Open access/ Non-Paid)**
6. Manish Kumar, Ashwani Kumar, K.S. Sandhu, “Optimal Location of PV based Distributed Generation in Pool based Electricity Market using Mixed Integer Non Linear Programming”, **International Journal of Hybrid information Technology, vol. 9, no-10, pp-335-352, 2016. (Index in SCOPUS)**

### Book Chapter (Index in SCOPUS):

1. Manish Kumar, Ashwani Kumar, K. S. Sandhu, “ WT based distributed generation location minimizing transmission loss using mixed integer non-linear programming in deregulated electrical market”, **proceedings of the International congress on**

**information and communication technology ICICT-2015, Advances in intelligent system and computing,vol.438, pp.443-358, 9-10 Oct,2015.**

2. Manish Kumar, Ashwani Kumar, K. S. Sandhu, “ PV-based distributed generation location using mixed integer non-linear programming in deregulated electricity market”, **Advanced computing & communication technology ICACCT 2015, Advances in intelligent system and computing,vol.452, pp.535-547,Nov, 2015.**

### **International Journal**

1. Manish Kumar, Manjeet , Pooja Khatri, “Study of faults on HVDC transmission lines”, Golden Research Thought, Volume3, Issue-8, Feb-2014.
2. Manish Kumar, “Transient Stability Enhancement of Two Area System using FACTS Controller”, Golden Research Thought, Volume3, Issue-9, March-2014.
3. Manish Kumar, “Comparative study and applications of FACTS devices in power system”, Indian Streams Research Journal ISSN 2230-7850) Volume-4 | Issue-2 | March-2014.
4. Manish Kumar, “Power quality improvements using DSTATCOM”, Research Directions Volume 1, Issue 10,PP-1-8, April 2014

### **International conference:**

1. Ashwani Kumar, Manish Kumar and K. S. Sandhu, “Optimal DFIG Location and Impact of Load Model in Pool Electricity Market”, **Proceedings of the 2014 International Conference on Power Systems, Energy, Environment (PSEE 2014), Interlaken, Switzerland, pp.149-156, Feb. 2014.**
2. Manish Kumar, Ashwani Kumar, K. S. Sandhu, “Optimal Location and Sizing of Distributed Generation Sources considering Voltage Control Areas”, **International Conference on Emerging Trends in Electrical, Electronics, Instrumentation& Computer Engineering (ETEICE), Bhilai Institute of Technology, Raipur & Institute for Research and Development India,Bhubaneswar, 27<sup>th</sup> march,2014.**
3. Manish Kumar, K. S. Sandhu, Ashwani Kumar, “ Wind generation integration impact on fuel cost saving in pool based electricity market”, **5<sup>th</sup> international conference on advance in energy research (ICAER) held at IIT Bombay , 15-17 Dec 2015.**
4. Manish Kumar, Manjeet, “Comparative analysis of STATCOM and UPFC device in power system”, **International conference on advances in Computing & Communication Engineering 22-23 Feb.2014.**

5. Manish kumar, K.S Sandhu, Ashwani Kumar, “Simulation analysis and THD Measurements of Integrated PV and Wind as Hybrid System Connected in Grid ”, **6<sup>th</sup> IEEE India International Conference on Power Electronics(IICPE-2014), National Institute of Technology, Kurukshetra, 8-10 dec,2014.**
6. Manish Kumar, Ashwani Kumar, K.S. Sandhu, “PV-WT based distribution generator location minimizing transmission loss in Pool/Bilateral electricity market model”, **RAEREST 2016, Procedia Technology, vol.25, pp-692-701, 2016. Elsevier**

**Under review/communicated in Journals (SCI/SCIE)**

1. Manish Kumar, Ashwani Kumar, K.S. Sandhu, “ Hydro and Wind Units participation for Congestion Management in Deregulated Electricity Market” **International Journal of Energy Sector Management (revision submitted).**
2. Manish Kumar, Ashwani Kumar, K.S. Sandhu, “Impact of harmonic load on the nodal prices in the distribution system with renewable energy sources”, **Journal of the Institution of Engineers (India), Springer: Series B (revision submitted).**
3. Manish Kumar, Ashwani Kumar, K.S. Sandhu, “Wind and PV Units participation for Congestion Management in Deregulated Electricity Markets”, **Journal of the Institution of Engineers (India), Springer: Series B.**
4. Manish Kumar, Ashwani Kumar, K.S. Sandhu, “Optimal Power flow model for nodal prices determination of Radial and Mesh Distribution system with wind based distributed generation”, **Journal of the Indian Academy of Sciences, SADHANA, Springer.**
5. Manish Kumar, Ashwani Kumar, K.S. Sandhu, “Nodal Price determination of solar power integrated Radial and Mesh Distribution system Using Optimal Power Flow model”, **AIP Journal of Renewable and Sustainable Energy.**
6. Manish Kumar, Ashwani Kumar, K.S. Sandhu, “Impact of D-STATCOM on Nodal Prices in Distribution System with Harmonic Load”, **AIP Journal of Renewable and Sustainable Energy.**

**Workshop attended**

<b>Title</b>	<b>Held on</b>	<b>Place</b>
Society of Instrumentation Technocrats, MATLAB	17 <sup>TH</sup> March-11 <sup>th</sup> April2006	SLIET Longowal
Introduction to Research Methodologies conducted by IIT Bombay & MHRD	25 <sup>th</sup> June to 04 <sup>th</sup> July,2012	NIT Kurukshetra
Aakash for education conducted by IIT Bombay& MHRD	10-11 Nov,2012	NIT Kurukshetra
Short term course on Wind energy conversion system conducted by NIT Kurukshetra	07-09 Sept,2012	NIT Kurukshetra
Signal Processing in Power System Protection &Control conducted by NIT Kurukshetra	17-22July,2017	NIT Kurukshetra

