**Covering Letter**

Sir, My resume as a faculty in EE stream particularly for subject “Control systems” is attached. Hope you will find it suitable and give me a chance to teach Control System subject in your reputed institute at a handsome package.

Also, I would like to mention that though I am faculty in Engineering College, but in last two years, I have gone through previous years GATE & IES MCQ questions of various subjects (particularly Electrical Machines, Power systems, Control systems) to become a faculty in a reputed GATE coaching institute.

 From,

Dr. Vipin Jain

(Mob: 9761988929)

**Resume**

**Name: Dr. Vipin Jain**

**Father’s Name: Chandra Prakash Jain**

**Date of Birth: 06-07-1971**

**Nationality: Indian**

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**Language known: Hindi, English**

**Marital Status: Married**

**Address: 10 A, Ground Floor, Sanjivni Estates, Sikri Khurd, Modinagar, Dist. Ghaziabad,
 201204 (India)**

**E mail:** **vipinjain71@rediffmail.com****, Mobile: 97619 88929**

**Qualifications/Degrees/Examinations Passed**

|  |  |  |  |
| --- | --- | --- | --- |
| Standard | Board/University | Year of passing | Marks |
| 10th class (High School) | U.P.Board | 1986 | 63.67% |
| 12th class (Intermediate) | U.P.Board | 1988 | 61.60% |
| B.E. (Branch- Electronics & Power Engineering, equivalent to Electrical Engineering) | Nagpur University (College- Shri Ramdeo Baba Kamla Nehru Engineering College), Nagpur, Maharashtra | 1992 | 59.28% |
| M.Tech. (Branch- Electrical Engineering) | JRN Rajasthan Vidyapeeth deemed University, Udaipur | 2007 | 65.74% |
| M. Tech. degree is exclusively certified by AICTE, New Delhi |
| Ph.D. (Branch- Electrical Engineering) | University of Delhi, Delhi. (College- Delhi College of Engineering, Delhi) | 2017 | - |
| Area of Ph.D.: Power System Stability & FACTS devicesTitle of Ph.D. Thesis: Enhancing the Dynamic Performance of Power System using Series and Shunt FACTS DevicesThesis Submitted on 29-9-2015, External viva voce held on 27-12-2016. Degree obtained in 2017.Delhi College of Engineering is now Delhi Technological University. |

**Summary of Professional Experience**

Industrial Experience: 14 years. (Eleven years in Transformer & Stabilizer Industries)

Research & Teaching Experience: 11 years (Subjects Taught: Power systems, Control Systems, Electrical Machines, Energy efficiency & Conservation, Non conventional Energy Resources etc.)

Present Job: Working as Assistant Professor in Electrical Engineering Department, Bharat Institute of Technology, Meerut (UP) since 12.12.2007.

**Details of all Previous Employments**

1. K. P. Electricals, Muzaffarnagar (Manufacturer of Stabilizer & Transformers), Time Period: 15.11.1992 – 15.7.2002, Designation: Senior Design Engineer, Job Profile: Designing of Transformers, Calculation of core, Cu wire; testing of transformers etc.
2. Vaishali Pharmaceuticals, Muzaffarnagar (Manufacturer of Pharmaceutical Products), Time Period: 22.07.2002 – 14.8.2005, Designation: Senior Maintenance Engineer, Job Profile: Maintenance of plant & machineries.
3. Muzaffarnagar College of Engineering, Muzaffarnagar, Time Period: 15.08.2005 – 29.9.2006, Designation: Lecturer, Job Profile: Teaching, Subjects Taught: Basic Electrical Engineering, Electrical Machines, Power Systems.
4. Ashish Enterprises (P) Ltd., Noida, (Manufacturer of Stabilizer & Transformers), Time Period: 1.10.2006 – 8.12.2007, Designation: Senior Design Engineer, Job Profile: Designing of Transformers, Calculation of core, Cu wire; testing of transformers etc.
5. Presently Working as Assistant Professor in Electrical Engineering Department, Bharat Institute of Technology, Meerut (UP) since 12.12.2007. Bharat Institute of Technology is a leading Engineering College affiliated to Dr. A.P.J. Abdul Kalam Technical University, Lucknow (A state university) and approved by All India Council for Technical Education.

**Area of Interest in Research**

Power System Stability, FACTS devices (particularly- SVC & STATCOM), Control System, Energy Efficiency.

**Additional Skills**

Good command over MATLAB & Simulink. Able to solve various load flow solution problems (in Power System), various non linear Differential Equations (and linearization of nonlinear Differential equation) and control system problems through MATLAB.

**Other Certificates & Examinations**

1. Passed Energy Auditor Examination in 2009, Conducted by Bureau of Energy Efficiency, Ministry of Power and obtained certificate of ‘Certified Energy Auditor’ (In this examination 4th paper is open book system and considered to be very hard, secured 93/100 marks in this paper).
2. Qualify GATE examination 2013.
3. Completed NPTEL online certification course in ‘Control Engineering’ from July 2017 to October 2017 with a consolidated score 71%.

**Summary of Research Papers**

Total number of research papers accepted and published: 20.

**Books**

**Vipin Jain,** Sanjiv Kumar, “Space Science” Ardent Publications, Delhi. (Edition-2010)

**Short Term courses**

1. “Mission 10X Workshop” from 9th – 13th Nov. 2009, organized by Wipro & Indian Society for Technical Education at Meerut Institute of Technology, Meerut (UP).
2. “MATLAB” from 17th – 21st Jan. 2011 at NITTTR, Chandigarh.
3. “Flexible AC Transmission systems and Power system voltage stability: Recent Advances” from 11th – 22nd July 2011 at Delhi Technological University, Delhi.
4. “FACTS TECHNOLOGY” from 21st – 25th Nov. 2011 at NITTTR, Chandigarh.
5. “Control Systems” from 12th June – 26th June 2012 at Bharat Institute of Technology, Meerut (UP)
6. “Instructional Planning & Delivery (Module IV: Communication skills)” from 7th – 11th July 2014, conducted by NITTTR, Chandigarh at Bharat Institute of Technology, Meerut (UP).
7. “Effective Curriculum Implementation” from 7th –11th March 2016 conducted by NITTTR, Chandigarh at Bharat Institute of Technology, Meerut (UP).
8. “Embedded System Design using MSP 430” from 2nd – 4th June 2016 conducted by Texas Instruments at Meerut Institute of Technology, Meerut (UP).
9. “Wide Area Power system Monitoring, Protection and Control” from 12th Dec-16th Dec. 2016 at Indian Institute of Technology, Roorkee.

**Membership of Professional Societies**

1. Associate Member of Institution of Engineers (India),
2. The Indian Society for Technical education,
3. Intellectuals Society for Socio-Techno Welfare.

**Interaction with Prominent Research Journals**

Reviewed seven research papers of Electric Power Components and Systems (A publication of Taylor & Francis, [United Kingdom](http://www.scimagojr.com/journalrank.php?country=GB)),

Reviewed one research paper of Journal of The Institution of Engineers (India): Series B (A Springer Journal)

**Website**

Running a website as “electricalweb.in” for electrical engineering students & researchers

**Objective and Targets of the Life**

* 1. To become reputed and trusted scholar of Electrical Engineering
	2. To contribute in Electrical Engineering through teaching, research publications and video lectures
	3. To publish high quality research papers
	4. To earn national and international awards in the field of Electrical Engineering.

**List of Research Papers Published and Accepted**

1. **Vipin Jain**, Narendra Kumar, “Designing of Supplementary Controller for STATCOM for Damping of Oscillations in Power System” Journal of the Institution of Engineers (India): Series-B; https://doi.org/10.1007/s40031-018-0330-z (A Journal published by Springer and Institution of Engineers, India)
2. **Vipin Jain**, Narendra Kumar, “Damping of Oscillations in Series Compensated Power System through Wide Area Damping Controller of STATCOM” The Journal of CPRI, Vol. 12, No. 4, December 2016. (A Journal published by Central Power Research Institute, Bangalore. Ministry of Power, Government of India)
3. **Vipin Jain**, Narendra Kumar, “Effect of TCSC on Power System Stability” The Journal of CPRI, Vol. 11, No. 4, December 2015. (A Journal published by Central Power Research Institute, Bangalore. Ministry of Power, Government of India)
4. **Vipin Jain**, Vinod Kumar Mehta, “Relationship Between Per Unit Reactance and Per Unit Inductance” International Journal of Modern trends in Engineering and Research, Vol. 2, No. 11, Nov. 2015.
5. Narendra Kumar, **Vipin Jain**, “Enhancement of Power System Dynamics through STATCOM” International Conference on Energy, Power and Electrical Engineering (EPEE 2016), (October 30-31, 2016), Shenzhen, China.
6. **Vipin Jain**, Narendra Kumar, “Designing of supplementary controller for STATCOM for Mitigation of Oscillations in Power Systems” Journal of Engineering, Science & Management Education, Vol. 8, Issue 2, August 2015, pp. 124-133. (A Journal published by National Institute of Technical Teachers Training & Research, Bhopal. Ministry of Human Resource Development, Government of India).
7. **Vipin Jain**, Narendra Kumar, “Designing of supplementary controller for STATCOM for mitigation of subsynchronous resonance in series compensated power system” The Journal of CPRI, Vol. 10, No. 04, December 2014. (A Journal published by Central Power Research Institute, Bangalore. Ministry of Power, Government of India).
8. **Vipin Jain**, Narendra Kumar, “A novel auxiliary controller of STATCOM for mitigation of subsynchronous resonance” ISST Journal of Electrical & Electronics Engineering, Vol. 5, No. 02, December 2014.
9. **Vipin Jain**, Narendra Kumar, “Mitigation of Subsynchronous Resonance in Power system through STATCOM and auxiliary controller” The Journal of CPRI, Vol. 10, No. 02, June 2014. (A Journal published by Central Power Research Institute, Bangalore. Ministry of Power, Government of India).
10. **Vipin Jain**, Arvind Raja, Sunil Bansal “Comparison of Supplementary Controllers for TCR- FC for Damping Oscillations in Power System” International Journal of advances in Engineering Science and Technology, Vol. 2, No.1, March 2013.
11. Narendra Kumar, **Vipin Jain**, Sajiv Kumar, “Comparison of Effectiveness of Auxiliary Signals Incorporated in STATCOM for improving Transient Performance of Power System” IEEE International Conference on Power Electronics, IICPE **-**2012, (December 6-8, 2012), Delhi Technological University, Delhi.
12. Sonal Jain, **Vipin Jain**, “Comparison of various Auxiliary Signals for Damping Oscillations using TCR-FC” International Journal of Advances in Engineering Science and Technology, Vol. 1, No. 1, 2012, pp. 22**-**27.
13. Sanjiv Kumar, Narendra Kumar, **Vipin Jain**, “Comparison of various Auxiliary signals for Damping Subsynchronous Resonance Oscillations using TCR-FC” International Conference on Advances in Energy Engineering, ICAEE 2011 (December 26-27, 2011), Bangkok, Thailand. Published in Energy Procedia (Elsevier), Vol. 14, 2012, pp. 695-701.
14. **Vipin Jain**, Narendra Kumar, “Implementation of Fuzzy Logic in TCR-FC” Innovative Systems Design and Engineering, Vol. 1, No. 4, 2011.
15. Sajid Ali, Sanjiv Kumar, **Vipin Jain**, “Installation and benefits of FACTS controllers and voltage stability in Electrical Power Systems” International Conference on Science and Engineering, ICSE-11, (January 21 - 23, 2011), R.G. Education Society, Rohtak (Haryana).
16. Sanjiv Kumar, Narendra Kumar, **Vipin Jain**, “Damping Subsynchronous Oscillations in Power System using Shunt and Series connected FACTS controllers” International Conference on Power Control and Embedded Systems (IEEE Conference), ICPCES 2010 (November 29 – December 1, 2010), Motilal Nehru National Institute of Technology, Allahabad (U.P.).
17. Sanjiv Kumar, Narendra Kumar, **Vipin Jain**, “Enhancing the Performance of Power Transmission System Using Shunt Connected FACTS Devices” International Conference on Electrical Power and Energy Systems, ICEPES 2010 (August 26 - 28, 2010), Maulana Azad National Institute of Technology, Bhopal (M.P.).
18. Narendra Kumar, **Vipin Jain**, “Damping of SSR Phenomenon in Power System Using FACTS Controllers” International Conference on Electrical Power and Energy Systems, ICEPES 2010 (August 26 - 28, 2010), Maulana Azad National Institute of Technology, Bhopal (M.P.).
19. Narendra Kumar, Sanjiv Kumar, **Vipin Jain**, “An Investigation to the Realities of FACTS Devices: A comparison of SVC, TCSC, TCPAR” National Conference on Advances in Mechanical and Electrical Engineering, AMEE 2010 (July, 2 - 3, 2010), Annasaheb Dange College of Engineering and Technology, Ashta, (Maharashtra).
20. Narendra Kumar, Sanjiv Kumar, **Vipin Jain**, “Exploring benefits of FACTS Controllers in AC Transmission systems” National Conference on Emerging Trends in Power Systems and Energy Management, NCPSEM 2010 (February 22 - 23, 2010), Lingaya’s University, Faridabad (Haryana).

**Theory Subjects taught in Engineering at under graduate level**

* 1. Control systems: Nine times in Electrical Engineering Branch (3rd Year)
	2. Electrical Machines-1: Four times in Electrical Engineering Branch (2nd Year)
	3. Industrial Instrumentation: Three times in Electrical Engineering Branch (4th Year)
	4. Electrical Measurements & Instrumentation: Two times in Electrical Engineering Branch (2nd Year)
	5. Electronics Measurements & Instrumentation: One time in Electronics & Communication Engineering Branch (2nd Year)
	6. Electrical Machines & Automatic Controls: Five times in Mechanical Engineering Branch (2nd Year)
	7. Power System operation & Control: Three times in Electrical Engineering Branch (4th Year)
	8. Flexible AC Transmission Systems: Three times in Electrical Engineering Branch (4th Year)
	9. Power Electronics: One time in Electrical Engineering Branch (3rd Year)
	10. Non Conventional Energy Resources: Three times in Electrical & Electronics Engineering Branches (4th Year)
	11. Apart from various labs; simulation lab, MATLAB based labs are handled many times.

**(Vipin Jain)**