



**Name :** Vineeta Agarwal

<b>Designation &amp; Affiliation</b>	: Professor, MNNIT Allahabad
<b>Date of Birth</b>	: 10 July 1960.
<b>Address</b>	: Department of Electrical Engineering, MNNIT, Allahabad, PIN 211 004 A- 7 , Staff Colony, MNNIT Allahabad.
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### **Educational Qualification:**

- **Ph.D. : Allahabad University (1994)**
- **M.E. : Allahabad University (1984)**
- **B.E. : Allahabad University (1980)**

### **Employment Details:**

- Working as Professor since 2001.(MNNIT, Allahabad)
- Worked as Associate Professor from 1993 to 2001.(MNNIT, Allahabad)
- Worked as Lecturer from 1983 to 1993 (MNREC, Allahabad)

### **Distinguished Assignment:**

- Fellow of Institution of Engineers, INDIA.
- Senior Member of IEEE (USA)
- Life Member of Indian Society for Technical Education (ISTE)
- IEEE Women in Engineering Affinity Group Chair UP Section (2014-2015)
- IET Student Consular (2003-2005)

## **Administrative Experience:**

- **Dean (Research and Consultancy)** June 2016 to Till Date
- **Head Electrical Engineering Department** (2005-2008)
- **Chair Person, NIRF Committee (2016- Till Date)**
- **Chair Person Women Grievances Cell (2005-2008)**
- **Convener department Doctoral committee** (2013-2015)
- **Convener department Post Graduate committee** (2011-2013)
- **Convener department undergraduate committee** (2002-2005)
- **Warden Girls Hostel (Many Times)**
- **Officer In Charge of Power electronics Lab, EED (2002-2005)**
- **Officer In Charge of Machine Lab , EED (1999-2002)**
- **Officer In Charge of Project Lab, EED**
- **Officer In Charge of Department Time Table**
- **Officer In Charge of Dept. Purchase Committee**

## **Technical Member of Journal and Conferences**

- **Editor** of STM Journals on **Trend in Electrical Engineering**
- **Editor** of STM Journals of **Power Electronics and Power System**
- **Advisory Board member** of **International Journal of Power, Energy and Artificial Intelligence**
- **Program Chair** of International Conference on Power Control and Embedded Systems ICPCES-2014, MNNIT India
- **Technical Chair** of Student Conference on Engineering and Systems SCES 2013, MNNIT India
- **Technical Chair** of Student Conference on Engineering and Systems SCES 2012, MNNIT India
- **Program Chair** of International Conference on Power Control and Embedded Systems ICPCES-2010, MNNIT India
- **Advisory Board member** of International Conference on “Recent Advances in “Electrical, Electronics and Control Engineering” ICONRAeECE-2011
- **Advisory Board member** of International Conference on Computer, Communication and Electrical Engineering” ICC CET-2011, Tirunelveli, Tamil Nadu, India

## **Session Chaired in International Conferences**

- Chaired Technical Session in IEEE TENCON 2016 — Technologies for Smart Nation **22-25 November 2016, Singapore**
- Chaired Technical Session in IEEE International Conference on Power, Control and Embedded Systems” ICPCES, **2014 26 -28 December, 2014, Allahabad, INDIA**

- Chaired Technical Session in IEEE International Power Engineering and Optimization Conference” **PEOCO, 2011 6-7 June, 2011, Shah Alam, Malaysia**
- Chaired Technical Session in IEEE International Conference on Power, Control and Embedded Systems” **ICPCES, 2010 29 Nov-1 December, 2010, Allahabad, INDIA**
- Chaired Technical Session III on “Converters” in International Telecommunications Energy Conference **INTELEC, 2008, September 14-18, San Diego, USA**
- Chaired Technical Session in IEEE International Conference on Industrial Technology, **ICIT 2006, 15-17 Dec, 2006, Mumbai, India**
- Chaired Technical Session in National Seminar on Advances in Product Development **APD 2006, 15-17 Dec, 2006, India**

### **Reviewer of Journal and Conferences**

- Reviewer of IEEE Transactions on Power Electronics
- Reviewer of IEEE Transactions on Industrial Electronics
- Reviewer of IEEE Transactions on Industrial Informatics
- Reviewer of IEEE Transactions on Small Grid
- Reviewer of Journal on Selected Topics in Power Electronics
- Reviewer of Journal of Electrical and Electronics Research
- Reviewer of International Journal of Power, Energy and Artificial Intelligence
- Reviewer of IET Circuits, Devices & Systems
- Reviewer of IET Power Electronics
- Reviewer of Journal of Power Electronics
- Reviewer of Several IEEE International Conferences

### **Book Authored:**

**1. Title : "Power Electronics"**

Co-Author : Dr. Krishna Kant

**Published by : BPB Publishing House, New Delhi.**

**Sponsored By:**

Swiss Agency for Development & Co-Operation

All India Council for Technical Education (AICTE)

Indian Society for Technical Education (ISTE)

**2. Title : "Fundamentals of Electric Drives "**

**Published by : AXIOE BOOKS™, AGRA**

## Ph.D. Supervision

### Supervision of Ph.D. Theses: Awarded (8)

1. **Piush Garg** on Fuzzy Logic Controller for CSI fed Induction Motor in **August 2009**
2. **Anshul Agarwal** on Design of Generalized Frequency Converter in **Dec-2013**
3. **Preeti Agarwal** on High Frequency Power Generation Using Hard Switched and Soft Switched Cycloinverter in **January 2015**
4. **Navdeep Singh** on Single Stage AC-AC Converter for Wind Energy System in **Aug 2015**
5. **Rajendra Pratap** on SPICE Modeling of SiC based Power Converters and their applications in **APRIL 2015** (Co-Supervisor: Dr R. K. Singh)
6. **Sarika Kalra** on Performance Analysis of High Speed Induction Motor using Finite Element in **October 2015**
7. **Abhishek Vikram** on Computational Geometry analysis of ASIC Layouts and Defect detection in fabrication **April 2016**
8. **Sanjay Agarwal** on Application of Signal Processing Techniques for Harmonic Estimation and Anti Islanding of Distributed Generation System (Co-Supervisor: Dr S. R. Mohanti) **May 2017**

### • Supervision of Ph.D. Theses: Continuing (03)

9. **Rajnish Bhaskar** in the area Multi Modular Converter
10. **Jaynendra Kumar** in the area of DC Micro grid Integration
11. **Rahul Jaisawal** in the area of Bidirectional Converter

## Projects:

### Externally Funded Projects: 02-Completed

1. Principal Coordinator, DST Sponsored Project **Modernization and Removal of Obsolescence Scheme (MODROBS)** Duration 1999-2000 (8 lacs) (Completed)
2. Principal Coordinator, DST Sponsored Project **FIST Project in the Area of Power Electronics Laboratory** Duration 2007-2012 (37.4 lacs) (Completed)

## **IPR/Patents:**

TITLE: Genetic Algorithm Based Single-Phase To Three-Phase Cycloinverter with SVPWM

Authors/contributors: Preeti Agarwal and Vineeta Agarwal

Status (Filed/Granted) Filed

Patent Application No.: 201611035744

Dated : October 19, 2016

## **Courses Taught**

### **UG Level**

Power Electronics  
Industrial Electronics  
Electrical Drive  
Circuit Theory  
Electrical Machine  
Resonant Converters  
Numerical Analysis and Computer Programming  
PASCAL Programming  
Switch Mode and Resonant Converters  
FACTS

### **PG Level**

Industrial Electronics  
Advanced Power Electrics  
Modern Industrial Drive  
Power Semiconductor Devices

## **List of Awards, Achievements and other Assignments**

- Awarded **National Scholarship** in Class X, UP. Board (1974)
- Awarded **Merit Scholarship** in all four years of B.E (1976-1980)
- Biography published in **Who's Who in Science and Engineering (2008-2009)** Edition, Marquis Who's Who, NJ USA.
- Invited in **DST-EPSRC Interaction meeting on Smart Energy Grids and Energy Storage**, June 2012 in Bath, UK
- One Ph.D. student shortlisted in top 10 list of **Best Doctoral category in POSOCO Power System Award (2014)**
- Best Paper Award in **IEEE Student Conference on Engineering and Systems SCES 2014 Allahabad, India**

- Biography published in **Who's Who in Science and Engineering (2017)** Edition, Marquis Who's Who, NJ USA
- **The Venus International Faculty Lifetime Achievement Award - VIFA 2017**

### **Conferences, Workshops and Seminars Attended :**

- Participated as **Author** to present a paper and **chaired** a session in *IEEE TENCON 2016*, 22-25 November 2016 Singapore
- Participated as **Author** to present a paper in *IEEE International Conference on Energy Conversion Congress and Exposition*, ECCE 2013, 15-19 September 2013, Denver, USA
- Participated as **Author** to present a paper in *IEEE Power Electronics Drives and Energy Systems, PEDES 2012, Bangalore, India*
- Participated as **Author** to present a paper and **chaired** a session in *IEEE International Power Engineering and Optimization Conference* PEOCO, 2011 6-7 June, 2011, Shah Alam, Malaysia
- Participated as **Program Chair** in *IEEE International Conference on Power, Control and Embedded Systems* ICPCES, 2010 29 Nov-1 December, 2010, Allahabad, INDIA,
- Participated as **Author** to present a paper and **chaired** a session in *IEEE International Telecommunications Energy Conference INTELEC 2008*, September 14-18, San Diego, USA
- Participated as **Author** to present a paper in *IEEE International Power Electronics Specialist Conference PESC 2008*, 14-19 June, 2008, Rhodes, Greece
- Participated as **Chair Person** a Workshop on "International Collaboration in the field of Power Engineering" 23-24 October, 2007, Allahabad, India
- Participated as **Author** to present a paper and **chaired** a session in *IEEE International Conference on Industrial Technology, ICIT 2006*, 15-17 Dec, 2006, Mumbai, India
- Participated as **Chair Person**, A short term course on Energy Management, 27-31 March 2006, Jointly Organized By MNNIT, Allahabad & NITTTR, Chandigarh
- Attended a Workshop on "Integration issues of Wind Farm with Grid" 28<sup>th</sup> September 2005 CPRI, Bangalore
- Participated as **Author** to present a paper in an *International Conference on Modelling, Simulation and Optimization*, MSO'04, 17-19 Aug, 2004 Kauai, USA
- Participated as **Author** to present a paper in *Workshop on "Laboratory Teaching in Electrical Engineering"* sponsored by AICTE, 12-18 June, 2000, MNREC Allahabad, India.
- Participated as **Author** to present a paper in *National Seminar on Efficient Laboratory Teaching*, 17 Nov. 1999, Allahabad, India
- Attended an *IEEE International Conference on Power Electronics, Drives and Energy Systems for Industrial Growth (PEDES, 96)*, 8-11 January, 1996, Delhi India.
- Participated as **Author** to present a paper in *National Seminar on Electronics Industrial Applications*, April 23, 1995, Kurukshetra, India

- Participated as **Author** to present a paper in National Seminar on Energy Management , March 2-3, 1995, Allahabad, India
- Participated as **Author** to present a paper in All India Conference on Applied Instrumentation on 14-15 Feb 1992, at Roorkee, India
- Attended a short term course entitled "Computer Organization and Architecture" under Continuing Education Programme, 14-31 May 1985, IIT Delhi, India
- Attended a short term course entitled "Data Structure and Programming Methodology" Under Continuing Education Programme, 14-31 May 1985, IIT Delhi, India.
- Attended a Short term course entitled "Recent Trends in Power Transmissions Systems" under ISTE Winter School, 18-31 Dec, 1985, MNREC Allahabad, India.

### Short Term Courses Organized

S. N.	Capacity	Title	Duration	Organized at	Sponsors [Govt./ Self-Financed]	Co-Coordinator, if any
1.	Chair Person	Energy Management	27-31 March 2006	MNNIT Allahabad	Self Financed	Nil
2.	Coordinator	Modelling and Control of Power Converters	24-28 July 2013	MNNIT Allahabad	Self Financed	Dr. Dinesh Chandra
3	Coordinator	DC-DC Converters and their Topologies and Control	19-23 December 2016	MNNIT Allahabad	Govt. Financed	Dr. Ravindra Kumar Singh

### Conference / Seminar/ Workshop organized

S.N.	Capacity	Title	Duration	Organised at	Sponsors [Govt./ Self-Financed]	Amount
1.	Chair Person	Workshop on International Collaboration in the field of Power Engineering	17-18 Oct 2007	MNNIT Allahabad	MNNIT	50000
2.	Chair Person	Workshop on Course Curriculum Development of PG Courses	17 May 2013	MNNIT Allahabad	MNNIT	35000
3	Program Chair	International Conference on Power	29 Nov-1 Dec. 2010	MNNIT Allahabad	Self Financed	

		<b>Energy and Embedded System ICPCES 2010</b>				
<b>4</b>	<b>Technical Program Chair</b>	<b>Student Conference on System and Engineering SCES 2012</b>	<b>16-18 March 2012</b>	<b>MNNIT Allahabad</b>	<b>Self Financed</b>	
<b>5</b>	<b>Technical Program Chair</b>	<b>Student Conference on System and Engineering SCES 2013</b>	<b>12 - 14 April 2013</b>	<b>MNNIT Allahabad</b>	<b>Self Financed</b>	
<b>6</b>	<b>Publication Chair</b>	<b>International Conference on Power Energy and Embedded System ICPCES 2017</b>	<b>11-13 March 2017</b>	<b>MNNIT Allahabad</b>	<b>Self Financed</b>	

## **Publications**

### ***In International Journals***

1. Navdeep Singh, Anshul Agarwal and Vineeta Agarwal, "Power control in centralized distributed AC load for wind energy system", ***Journal of Renewable and Sustainable Energy, Vol.9, Issue 3, May 2017(SCI)***
2. Rajnish Bhaskar and Vineeta Agarwal, "Topology, Operation and Control of Modular Multilevel Converter for Grid Application: A Review" ***Trends in Electrical Engineering (TEE), Vol. 7, No. 1, April 2017***
3. Abhishek Vikram and Vineeta Agarwal and Anshul Agarwal, "Lithography technology for advanced devices and introduction to integrated CAD analysis for hotspot detection", ***IET Circuit Devices and Systems, Vol. 11, No. 1, January 2017, pp. 1-9(SCI)***
4. Abhishek Vikram and Vineeta Agarwal,"Critical Review of Current Trends in ASIC Writing and Layout Analysis, ***Journal of Semiconductor Technology and Science, Vol. 16, no.2, April 16 (SCI)***
5. Navdeep Singh and Vineeta Agarwal, "Delta Modulated AC AC Converter for PM WECS" ***IEEE Transactions on Industrial Informatics, Vol. 11, No. 6, December 2015, pp. 1422-1434(SCI)***
6. Navdeep Singh and Vineeta Agarwal, "A New Random SPWM Technique for AC-AC Converter Based WECS" ***Journal of Power Electronics, Vol. 15, No. 4, July 2015, Pages- 939-950: Citation: 3 (SCI)***
7. Sanjay Agarwal, S. R. Mohanti and Vineeta Agarwal, "Bearing Fault Detection Using Hilbert and High Frequency Resolution Techniques", ***IETE Journal of Research, Volume 61, issue 2, February 2015, Pages- 99-108 (SCI)***
8. Sanjay Agarwal, S. R. Mohanti and Vineeta Agarwal, "Harmonics and Inter-harmonics Estimation of DFIG based Standalone Wind Power System by Parametric Techniques ***International Journal of Electrical Power and Energy Systems, ELSEVIER, Volume 65, February 2015, Pages 52-65, impact factor: 3.43, Citation: 2 (SCI)***



9. Mayank Kumar, Preeti Agarwal, and Vineeta Agarwal, "A Novel Soft Switched Cyclo-Inverter." *IEEE Transactions on Industrial Electronics*, January 2015, Volume 62, Issue: 1, Page(s): 153-162, **Citation: 1** (SCI)
10. Navdeep Singh and Vineeta Agarwal "Single-Stage AC-AC Power Conversion for WECS", *International Journal of Electrical Power and Energy Systems*, ELSEVIER, Volume 64, January 2015, Pages 734–742(SCI)
11. Rajendra Pratap,Vineeta Agarwal and Ravindra K. S, "SiC Based Single Chip Programmable AC to DC Power Converter" *Journal of Semiconductor Technology and Science*, Vol. 14, No. 6 December 2014(SCI)
12. Sarika Kalra and Vineeta Agarwal "Effect of Air Gap on the Performance of High Speed Induction Motor." *Journal of Electrical Engineering*, Volume 14, Edition 2, June 2014, (SCOPUS)
13. Sarika Kalra and Vineeta Agarwal, "Performance of High-Power, High-Speed Induction Motor with Slitted-Rotor" *International Review of Electrical Engineering*, IREE December 2013, vol.8, no. 6 (SCOPUS)
14. Navdeep Singh and Vineeta Agarwal "A Review on Power Quality enhanced Converter Of Permanent magnet Synchronous Wind Generator." *International Review of Electrical Engineering*, IREE December 2013, vol.8, no. 6, pp. ((SCOPUS)
15. Preeti Agarwal andVineeta Agarwal, A Novel Approach of Space Vector Modulation for Cycloinverter Using Genetic Algorithm, *IET Power Electronics*, Volume 6, issue 8, pp.1723 – 1731, September 2013 (SCI)
16. Navdeep Singh and Vineeta Agarwal, "Single Stage AC-AC Converter for Standalone Wind EnergySystem." *International Journal on Energy Conversion*, IRECON 2013, vol.1, No. 2, pp. 141-146
17. Sanjay Agarwal, A. K. Chandel, S. R. Mohanti and Vineeta Agarwal, "Transformer Winding fault classification based on pattern recognition technique, *International Review of Electrical Engineering (IREE)*, December 2012, vol.7, no. 6, pp. 6093-6103(SCOPUS)
18. Preeti Agarwal, Anshul Agarwal &Vineeta Agarwal, "High Frequency Power Generation Using Cycloinverter with SVM), *International Review of Electrical Engineering (IREE)* December 2012, vol.7, no. 6, pp. 6005-6013 (SCOPUS)
19. Anshul Agarwal & Vineeta Agarwal, "Design of FPGA Based Controller for Delta ModulatedSingle-Phase Matrix Converter", *Journal of Power Electronics*, vol. 12, No. 6, November 2012, **Citation: 1** (SCI)
20. Anshul Agarwal and Vineeta Agarwal, "Field Programming Gate Array Based Delta Modulated Cyclo-Inverter", *IET Power Electronics*. Vol.5, issue 9, November 2012, pp 1793-1803(SCI)
21. Anshul Agarwaland Vineeta Agarwal, "FPGA Based Variable Frequency AC to AC Power Conversion", *Electrical Power System Research (EPSR)*, ELSEVIER, Vol. 90, September 2012, pp. 67-78. **Citation: 5** (SCI)
22. Anshul Agarwal and Vineeta Agarwal, "FPGA Realization of Trapezoidal PWM for Generalized Frequency Converter" *IEEE Transaction on Industrial Informatics*. vol. 8, no. 3, pp. 501-510, Aug 2012, **Citation: 16** (SCI)
23. Navdeep Singh, Anshul Agarwal and Vineeta Agarwal "Implementation of Delta PWM for AC-AC Converter using FPGA", *Journal of Electrical Engineering*, Volume 11, Edition 3, pp. 130-135, October 2011(SCOPUS)

24. Piush Kumar, Vineeta Agarwal and Asheesh K. Singh, "Design of Fuzzy Controllers for CSI Fed Induction Motor", *Journal of Electrical and Electronics Systems Research*, vol. 4, No. 1, June 2011
25. Anshul Agarwal and Vineeta Agarwal, "Design of Delta Modulated Generalized Frequency Converter", *IEEE Transaction on Industrial Electronics*. Nov. 2010, Volume 57, Issue: 11, Page(s): 3724 – 3729, **Citation: 14 (SCI)**
26. Piush Kumar and Vineeta Agarwal, "A Comparative Study of Controllers for CSI Fed Induction Motor" *Journal of Power Electronics*, Vol. 9, No. 2, March 2010, **Citation: 3(SCI)**
27. Vineeta Agarwal and Shilpi Gupta, "An Efficient Algorithm for Single Phase Converter" *IET on Power Electronics*, January 2010, Volume 3, Issue 1, p.138–145, **Citation: 11(SCI)**
28. Vineeta Agarwal and Alok Vishwakarma, "A Modified Method For Maximum Power Point Tracking of PV Cell" *Journal of Electrical and Electronics Research Systems*, vol. 2, No. 1, June 2009 pp. 1-9
29. Ajay Gola, and Vineeta Agarwal, "Implementation of An Efficient Algorithm for a Single Phase Matrix Converter" *Journal of Power Electronics*, Vol. 9, No.2 , March 2009, pp. 198-206, **Citation: 15 (SCI)**
30. Piush Kumar and Vineeta Agarwal, "Tuning of PI Controller for current source inverter fed Induction motor drive", *International Journal of Power, Energy and Artificial Intelligence*, *IJPEAI*, vol. 2, No. 1, pp. 111-116, March 2009
31. Vineeta Agarwal and Ankit Agarwal, "A Comparative Study of Modulation Schemes for Cyclo-Inverters", *International Journal of Power, Energy and Artificial Intelligence*, *IJPEAI*, vol. 1, No. 1, pp. 22- 28, August 2008
32. Piush Kumar and Vineeta Agarwal, "A Model for Current Source Inverter Fed Induction Motor", *Journal of Electrical and Electronics Research Systems* vol. 1, No. 1, June 2008
33. Vineeta Agarwal and Peeuesh Agarwal, "IGBT Based Cyclo-Inverter", *Asian Power Electronics Journal*, Vol. 2, No. 1, pp. 58-62, April 2008
34. Vineeta Agarwal, "A Mathematical Model for TGBT", *Asian Power Electronics Journal*, , Vol. 2, No. 1, pp. 10-14, April 2008
35. Vineeta Agarwal, Anant K. Agrawal and Krishna Kant, " A Study of Single Phase to Three Phase Cyclo-Converter using PSPICE", *IEEE Transaction on Industrial Electronics*, vol. IE-39, No.2, April 1992, **Citation: 20 (SCI)**
36. Vineeta and Krishna Kant, " Microprocessor Based Single Phase to Three phase Cyclo-Converter" , *IEEE Transaction on Industrial Electronics* vol. IE-39, No.4, Aug. 1990, **Citation: 5. (SCI)**
37. Vineeta and Krishna Kant, "An Efficient algorithm for the control of Microprocessor Based Single Phase to Three Phase Cyclo Converter", *IEEE Transaction on Industrial Electronics*, vol. IE-37 No.1, FEB.1990. **Citation: 3 (SCI)**

### ***In Conferences***

38. Rajnish Bhasker and Vineeta Agarwal, "Modelling of Modular Multilevel Converter for grid Application" *IEEE International Conference on Power, Control and Embedded Systems*, *ICPCES 2017*, 9-11 March, 2017, Allahabad, INDIA

39. Anshul Agarwal and Vineeta Agarwal, "FPGA Based Direct Matrix Converter: The Harmonic Analysis with Three Modulation Techniques", **IEEE TENCON 2016, Singapore**
40. Aman Srivastava, Vineeta Agarwal and Rajnish Bhasker, "Dual PID Loop Controller for HF Link Inverter in Two-Stage SST" **Seventh POWER INDIA International Conference 2016, Bikaner, November 25-27, 2016.**
41. Diwaker Sharma, Vineeta Agarwal and Rajnish Bhasker, "Capacitor Voltage Balancing in Back-to- Back Modular Multilevel Converter" **Seventh POWER INDIA International Conference 2016, Bikaner, November 25-27, 2016.**
42. Anshul Agarwal, Vineeta Agarwal, S Rajasekar, P Sanjeev Kumar, Viliam Fedák, Mihai Cernat, "Harmonic Minimization In Modulated Frequency Single-Phase Matrix converter", **IEEE Power Electronics and Motion Control, IEEE-PEMC'16, Varna (Bulgaria).**
43. Anshul Agarwal, Vineeta Agarwal, S Rajasekar, P Sanjeev Kumar, Viliam Fedák, Mihai Cernat, "Comparative Analysis of Modulation Techniques in Frequency Converter" **IEEE Power Electronics and Motion Control, IEEE-PEMC'16, Varna (Bulgaria).**
44. Anshul Agarwal and Vineeta Agarwal, "FPGA Based Sinusoidal Pulse Width Modulated Frequency Converter" **IEEE Power Electronics, Intelligent Control and Energy System, ICPEICES-2016, Delhi**
45. Abhishek Vikram and Vineeta Agarwal, "Overview of nano-Electronics Printing Techniques and Patterning Defects Detection" **IEEE UPCON 2015, Allahabad, 4-6 December 2015**
46. Abhishek Vikram, Vineeta Agarwal and Dharmendra Praksash, "Multi-dimensional Design Layout Analysis in ASIC Manufacturing", **IEEE Student Conference on Engineering and Systems SCES 2015 Allahabad, India, 6-8 November 2015**
47. Sanjay Agrawal, Soumya R. Mohanty, Vineeta Agarwal, "Harmonics and Interharmonics Estimation of Wind Power Plant using Sliding Window Matrix Pencil", **IEEE Industrial Electronics Society (IECON2015), Yokohama, Japan, November 9-12, 2015**
48. Abhishek Vikram, Ashma Gangwar and Vineeta Agarwal, "Multiple-Patterning and Systematic Wafer Inspection of VLSI Devices for Yield", **12th IEEE India International Conference INDICON 2015, Electronics, Energy, Environment, Communication, Computer, Control, New Delhi, India, Dec 17-20, 2015**
49. Pratap R.; Singh R. K.; Agarwal V., "Overview of various available Spice Simulators", **IEEE International Conference on Power, Control and Embedded Systems, ICPCES 2014, 26-28 December, 2014, Allahabad, INDIA**
50. Sanjay Agarwal, S. R. Mohanti and Vineeta Agarwal, "Harmonics and Inter-harmonics Estimation of DFIG based Standalone Wind Power Plant", **IEEE International Symposium on Industrial Electronics, ISIE 2014, 1-4 June, 2014, Pages 495-498, vol.2, Istanbul, Turkey, Citation: 2**
51. Ranjay Singh, Sarika Kalra and Vineeta Agarwal, "Analysis of Slit Rotor Slot of high Speed SRIM and Comparison with Double Cage Rotor Slot" **IEEE Student Conference on Engineering and Systems SCES 2014 Allahabad, India, 28-30 May 2014**
52. Gaurav Khanduri, Sarika Kalra and Vineeta Agrawal, "Rotor Core Material and End Ring Length Analysis for Solid-Rotor High Speed Induction Motor" **IEEE Student Conference on Engineering and Systems SCES 2014 Allahabad, India, 28-30 May 2014**
53. Ayush Vardhan Goyal, Preeti Agarwal, Jagtar Singh Bhatti, and Vineeta Agarwal, "Three Phase Induction Motor Drive using Single- Phase to Three-Phase Cycloinverter With

- SVPWM Technique, **IEEE Student Conference on Engineering and Systems SCES 2014 Allahabad, India, 28-30 May 2014**
54. Jagtar Singh Bhatti, Ayush Vardhan Goyal and Vineeta Agarwal, "Harmonic Mitigation in AC-AC Converter" **IEEE Student Conference on Engineering and Systems SCES 2014 Allahabad, India, 28-30 May 2014**
  55. Sarika Kalra and Vineeta Agarwal "SPICE Model of Cycloinverter Fed Induction Motor."**IEEE International Conference on Control, Instrumentation, Energy and Communication CIEC 2014, Calcutta, January 31-2 Feb. 2014 India**
  56. Navdeep Singh and Vineeta Agarwal "Control of single stage AC-AC converter for variable speed Wind Energy System."**IEEE International Conference on Control, Instrumentation, Energy and Communication CIEC 2014, Calcutta January 31-2 Feb. 2014 India**
  57. Navdeep Singh and Vineeta Agarwal "A Survey on Power Quality Improvement Converter of PMSG, Sustainable Energy and Intelligent System Conference, SEISCON 2013, Dec 12-14, 2013. Chennai. India
  58. Navdeep Singh and Vineeta Agarwal, "Performance Improvement and Loss minimization of variable to constant frequency AC to AC converter for wind energy system." **IEEE INDICON Mumbai, India, 13-15 December, 2013.**
  59. Navdeep Singh and Vineeta Agarwal, "Fuel Cell Based High Frequency and Soft Switching DC-AC Converter for Remote Area Places." **IEEE INDICON Mumbai, India, 13-15 December, 2013.**
  60. Sarika Kalra and Vineeta Agarwal "Modelling of High Speed Induction Motor." **International Conference on Emerging Trends in Engineering and Technology, ICETET, Idukki, Kerala, October 2013 India**
  61. Nirmal Kumar Kushwaha, Abhishek Kumar Kashyap, Mayank Kumar and Vineeta Agarwal, "Simulation Based Operational Study of Z source, Quasi Z source and T shaped Z source Converter" **National Conference NCRATES 2013, Sultanpur**
  62. Anshul Agarwal and Vineeta Agarwal "A Comparative Study of FPGA Based Cycloinverter with two modulation techniques", **IEEE International Conference on Energy Conversion Congress and Exposition, ECCE 2013, 15-19 September 2013, Denver, USA**
  63. Prabhat Ranjan Sarkar, Abhishek Kashyap, and Vineeta Agarwal "Power Quality Improvement using T-shape ZSI with maximum constant boost switching", **International Conference on Advances In Electronics, Electrical And Computer Engineering - EEC 2013, June 22-23 2013**
  64. Prabhat Ranjan Sarkar, Abhishek Kashyap, Vineeta Agarwal "Enhancement in performance of wind energy conversion system including matrix converter", **International Conference on Advances In Electronics, Electrical And Computer Engineering - EEC 2013, June 22-23 2013**
  65. Gurmeet Singh, R.K. Jarial, Anshul Agarwal & Vineeta Agarwal, "APLC controlled elevator system", **IEEE Student Conference on Engineering and Systems SCES 2013 Allahabad, India, 12-14 April 2013, Citation: 2**
  66. Arinjoy Biswas, Jawahar Lal Jaiswal and Vineeta Agarwal, "A study of Staircase Modulation technique for Single Phase Matrix converter" **IEEE International Conference on Power, Control and Embedded Systems, ICPCES 2012, Allahabad, India**



67. JawaharLal Jaiswal, Arinjoy Biswas and Vineeta Agarwal, "Implementation of Single Phase Matrix Converter as generalized single phase converter" **IEEE International Conference on Power, Control and Embedded Systems, ICPCES 2012, Allahabad, India**
68. Preeti Agarwal, PriyankaSonkar and Vineeta Agarwal, "Single Phase to Three Phase Cycloinverter with Space Vector PWM Controller" **IEEE Power Electronics Drives and Energy Systems, PEDES 2012, Bangalore, India**
69. Shubham Verma and Vineeta Agarwal, "Realization of Fibonacci search algorithm for single phase matrix converter" **IEEE 5<sup>th</sup> India International Conference on Power Electronics, IICPE-2012, Delhi, India**
70. Rajendra Pratap, R. K .Singh and Vineeta Agarwal, **"SPICE Modelling of SiC MOSFET"** **IEEE Power Electronics Drives and Energy Systems, PEDES 2012, Bangalore, India**
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