

## CURRICULUM VITAE



Name : Prof. K. S. VERMA

Father's Name : Late Sri V.R.VERMA

Address : Director, Rajkiya Engg College Ambedkar Nagar  
Professor, Electrical Engineering Department,  
Kamla Nehru Institute of Technology,  
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Date of Birth : 03 - 04 -1966

Sex (status) : Male (Married)

### EMPLOYMENT DETAIL

S No	Nature of Job	Pay Scale	Duration
1.	Teaching Assistant	1000.00 fixed	22.08. 1987- 13.12 1988
2.	Lecturer ( Adhoc)	700-1600	14.12 1988 - 06.08 1989
3.	Lecturer	2200-4000	07.08 1989 - 31.12. 1995
4.	Lecturer (Sr. Scale)	10000-15200	01.01.1996 - 31.12.2000
5.	Assistant Professor	12000-18300	01.01.2001 - 20.10.2008
6.	Professor	16400-22400( Revised	21.10.2008 - 29.01.2010
7.	Professor & Head	37400-67000 AGP 10000)	15.07.09 – 29.01.2010
8.	Director KNIT SLN	16400-22400( Revised	30.01.2010 – 28.10.2014
9.	Principal (Acting) MKRECIT AMBD	37400-67000 AGP 10000 Special allowance 3000)	30.01.2010 – 28.10.2014
10.	Professor Electrical Engg KNIT SLN	16400-22400( Revised 37400-67000 AGP 10000)	21.10.2008- 14.01.2015
11.	Director REC Ambedkarnagr	37400-67000 AGP 10000 Special allowance 3000)	15.01.2015- till date

## DETAILS OF QUALIFICATIONS

- Ph.D. Electrical Engg. (Power Systems) Indian Institute of Technology, Roorkee, Roorkee (India).  
*Topic: Optimal Transmission Dispatch using FACTS devices in Open Power Market*
- M.Tech. Electrical Engg. (Power Systems), KNIT Sultanpur (India). Marks obtained 74.1 %.  
*Topic: Effect of series and shunt compensation on static voltage stability.*
- B.Tech. (Hons) Electrical Engineering, KNIT Sultanpur, (India). Marks obtained 78.1 %.
- Intermediate, Board of High School and Intermediate Education Uttar Pradesh, Marks obtained 64.4%
- High school, Board of High School and Intermediate Education Uttar Pradesh, Marks obtained 78% (Hons)

## FIELD OF SPECIALIZATION:

Power Systems, Flexible AC Transmission Systems, Planning and Operation of Distributed Generation, Modeling & Simulation of Power Systems, Power Quality

## PROFESSIONAL EXPERIENCE

Total teaching experience 27 years (UG and PG level)

- Taught the subjects related to B Tech (Electrical Engineering)
- Taught the subjects related to M. Tech (Power Electronics and drives) and M Tech (Power Systems)

## LIST OF PUBLICATIONS:

### (A) Journals

1. KS Verma and HO Gupta, “ *Impact on real and reactive power in open power market using Unified Power Flow Controller*” IEEE Transaction on Power Systems Vol 27, Jan 2006, pp. 365-371
2. KS Verma, SN Singh and HO Gupta, *Optimal Location of UPFC for Congestion Management*, Electric Power Systems Research, Vol. 58 No.2, July 2001, pp. 89-96.
3. SN Singh, KS Verma and HO Gupta, *Optimal Power Flow Control in Open Power Market Using Unified Power Flow Controller*, IEEE Proceedings, IEEE PES Summer meeting, 2001, pp 1698-1703.
4. KS Verma, SN Singh and HO Gupta, *FACTS Device location for enhancement of total transfer capability*, IEEE Proceedings, IEEE PES Winter Meeting, 2001, pp 522-527.
5. Deependra Singh, Devender singh & K S Verma, “*GA based Optimal Sizing and Placement of Distributed Generation for Loss Minimization*”, International Journal of Intelligent Technology, Vol. 2, No. 4, pp. 263-269, 2007.
6. Deependra Singh, Devender singh & K S Verma, “*GA based Energy Loss Minimization Approach for Optimal Sizing and placement of Distributed Generation*”, International Journal of Knowledge-based & Engineering Intelligent Systems, Vol 12, No.2, pp 147-156, 2008

7. Deependra Singh, Devender singh & K S Verma, “ *Multiobjective optimization with load models for penetration of DG*” IEEE Transaction on Power Systems, Vol 24, No.1, Feb 2009, pp 427-436.
8. D. Saxena, K.S. Verma and S.N. Singh, “ Power Quality Event Classification: An Overview and Key Issues” INTERNATIONAL JOURNAL OF ENGINEERING, SCIENCE AND TECHNOLOGY VOL. 2, NO. 2, 2010, PP. 187-200
9. D. Saxena, K.S. Verma and S.N. Singh, “Application of computational intelligence in emerging power systems” INTERNATIONAL JOURNAL OF ENGINEERING, SCIENCE AND TECHNOLOGY VOL. 2, NO. 2, 2010, PP. 01-07
10. Prof SN Singh and Prof KS Verma ,” Editorial” INTERNATIONAL JOURNAL OF ENGINEERING, SCIENCE AND TECHNOLOGY ,VOL. 2, NO. 2, 2010, PP. I
11. L U B PANDAY K S VERMA & KRIPA SHANKAR, “VISION FOR SMART CAMPUS ENGINEERING COLLEGES” THE INDIAN JOURNAL OF TECHNICAL EDUCATION, VOL 33, NO 3, SEPTEMBER 2010, AND PP 70-76.
12. B SINGH, K S VERMA, DEEPENDRA SINGH,” INCORPORATION OF FACTS CONTROLLERS IN MULTI MACHINE POWER SYSTEMS FOR ENHANCEMENT OF DAMPING RATIO AND VOLTAGE STABILITY” INTERNATIONAL JOURNAL OF COMPUTER SCIENCE AND ENGINEERING, VOL 5 ISSUE 3,2010
13. B SINGH, K S VERMA, S N SINGH,” APPLICATIONS OF PMU IN POWER SYSTEMS WITH FACTS CONTROLLERS,” IJSET, DENMARK, VOL3, ISSUE 3,2011
14. C R Sutar, K S Verma, A V Singh, “ Next Generation Monitoring, Analysis and Control for the future Smart Control Centre,” International Journal of Electrical, Electronics and Computer Systems (IJEECS), Vol 1, Issue 2, April 2011, [www.ijeeecs.org](http://www.ijeeecs.org)
15. Deependra Singh, K S Verma & S N Singh, “Changing Scenario of Electric Power Injection: Generation Side to Load Side” Article - Electrical India magazine, Chary publications Pvt Ltd Mumbai.
16. D Saxena, S N Singh, K S Verma, “Wavelet based denoising of power quality events for characterization,”*International Journal of Engineering, Science and Technology, Vol. 3, No. 3, 2011, pp. 119-132*
17. Bindeshwar Singh, N K Sharma, A N Tiwari, & K S Verma, ““A Status review of Incorporation of FACTS Controllers in Multi-Machine Power Systems for Enhancement of Damping of Power System Oscillations and Voltage Stability,” International journal of Engineering Science and Technology (IJEST), Vol. 2, No. 6, June 2010, pp. 980-992.
18. Pawan Kumar Sen, Neha Sharma, Ankit Kumar Srivastava, Dinesh Kumar and K S Verma, ““Carrier Frequency Selection of Three-phase Matrix Converter,” International Journal of Advances in Engineering & Technology (IAET), Vol. 1, No. 3, pp. 41-54, July 2011.

19. Pawan Kumar Sen, Neha Sharma, Ankit Kumar Srivastava, Dinesh Kumar and K.S. Verma , ““Performance Evaluation of AC Motor Drives Through Matrix Converter-an Indirect Space Vector Modulation Approach,” International Journal of Advances in Engineering & Technology (IJAET), Vol. 1, No. 3, pp. 145-161, July 2011.
20. D N Srivastava, Deependra Singh & K S Verma “Need of Energy Conservation: Power to All”, *ISST Journal of Mechanical Engineering (IJME)* Vol.-1 No-2, July-Dec-2010
21. D. Saxena, K.S. Verma, “Wavelet transform based power quality events classification using artificial neural network and SVM” International Journal of Engineering, Science and Technology Vol. 4, No. 1, 2012, pp. 87-96
22. Nupur Mittal, S. P. Singh, D Singh, K S Verma, “Multilevel Inverter and its Control Strategies: A Comprehensive Review” in International Journal of Material Science and Electronic Research (IJSMER) Vol. 3, No. 2, pp.215-234, July-December, 2012.
23. C R Sutar, K S Verma, “ Application of Synchronized phasor measurement unit in smart Grid” Journal of information, knowledge and research in Electrical Engineering, issue 02, Vol 01, pp 44-49, 2011
24. D. Saxena, Sayak Bhaumik, S.N. Singh, and K.S. Verma , "Optimal Placement of Power Quality Monitors" , Journal of CPRI Volume :7 / 199-208 / 2011
25. Sarika Shrivastava, Anurag Tripathi, K.S. Verma, 2014,” Reduction in DC-Voltage Fluctuation Using PI Controller In DFIG-Based Wind Energy Converters Under Normal and Fault Conditions” in International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Vol. 3 Issue 5
26. Sarika Shrivastava, Anurag Tripathi, K.S. Verma, 2015, “Reactive Power Control of DFIG Wind Turbine Integrated with Grid Under Symmetrical and Unsymmetrical Fault Conditions” in International Journal of Electrical Engineering. ISSN 0974-2158 Volume 8, Number 1 (2015), pp. 39-46
27. Sarika Shrivastava, Anurag Tripathi, K.S. Verma ,2015, “Control Strategy for Total Harmonic Distortion Reduction in Generated Voltage for Grid Connected DFIG under Symmetrical & Unsymmetrical Fault Conditions”, International Journal of Scientific & Engineering Research, Volume 6, Issue 5
28. Sarika Shrivastava, Anurag Tripathi K.S. Verma, 2015 ” Power Quality Improvement in Grid Integrated DFIG using Multi-Level Inverter” Elixir International Journal, Elec. Engg. 83 (2015) 33275-33279
29. Ritul Agrawal ,Imran Khan, K S Verma ,Balgopal “Margin Computational Method – A Method To Compute margins Of Electrical Power System Security” VSRD International Journal Of Electrical, Electronics & Communication Engineering , Vol.1(1), PP no. 1-12, March 2011.

30. Imran Khan, M A Mallick , K S Verma , Faheemullah “An Efficient Margin And Sensitivity Analysis Based Method For Calculating Voltage Collapse” SAMRIDDHI (S-JPSET) ,pp no. 123-127, June 2013.
31. Imran Khan, M A Mallick, K S Verma , Faheemullah “ Implementation of Margin Sensitivity Methods In Indian Power System”International Journal of Engineering Research and Applications (IJERA), pp no. 31-37, June 2013 .
32. Imran Khan, M A Mallick , K S Verma , Faheemullah, “Optimal Placement of FACTS Controller Scheme For Enhancement of Power System Security In IndianScenario Journal of Electrical Systems and Information Technology”, is accepted in Journal of Electrical Systems and Information Technology (Elsevier USA) in march2015.
33. S. Singh, Anurag Tripathi and K.S. Verma, “A New Technique to Implement SVC in Optimal Power Flow”,ARPN Journal of Engineering and applied Sciences, vol,6 No5, May 2011.
34. S. Singh and K.S. Verma, “A New Method to Incorporate TCSC in Optimal Power Flow using Genetic Algorithm”, ARPN Journal of Engineering and applied Sciences, vol,6 No7, July 2011.
35. S. Singh and K.S. Verma, “Optimal Power Flow using Genetic Algorithm and Particle Swarm Optimization, volume -2, Jan 2012, pp 044-49.IOSR Journal of engineering.
36. Satyendra Singh, K. S. Verma," Artificial Intelligence Techniques for Multi Objective Optimum Power Flow with Valve Point Loading Incorporating SVC" Volume 4 Issue 6 June 2015.

**(B) Conference / Seminars**

1. KS Verma, RP Payasi and TN Shukla, *Comparative study of Series and shunt compensation for enhancement of power transfer capability and static voltage stability*, Proc. of the 14<sup>th</sup> national convention of electrical engineers, IIT Kanpur, Dec 1999,.
2. SN Singh, Sachchidanand, GK Dubey and KS Verma, *State Space Representation of a Pulse Width Modulated GTO Converter for Dynamic Simulation*, Proc. of International Conference on Power System Technology (ICPST'94), Beijing, China, Oct.1994, pp. 979-983.
3. KS Verma, RP Pyasi and TN Shukla, *Effect of series and shunt compensation on static voltage stability*, Proc. of 10<sup>th</sup> National Power System Conference, NPSC98, Baroda, pp. 41-45.
4. KS Verma, AS Pandey and R Mohanty, *Reactive power control for static voltage stability enhanceent at weak bus in power system network using and series and shunt compensation – a comparative study*, Proc. of the seminar electric energy system management- Indian scenario, IIT Roorkee 1998, pp. 106-110.

5. KG Upadhyay, KS Verma and SN Singh, "Restoration Problem - Key Issues and Constraints", National conference on Trends in Industrial electronics, transducers, controls and communication (TIET.COM 2000), Patiala, November 14-15, 2000.
6. KS Verma, HO Gupta and SN Singh, *Power Flow Control Using UPFC in Open Power Market*, Proceeding Cigre Regional Meeting, Nov 2001, New Delhi
7. KS Verma, HO Gupta and SN Singh, *Location of UPFC for Power Systems' Security in Deregulated Environment*, Proceeding of International conference "EAIT-2001" Dec 2001, IIT Kharagpur, pp-149-154.
8. KS Verma, SN Singh and HO Gupta, FACTS in Open Power Market: An Overview and Key Issues, CERA-01, I I T Roorkee, Feb 21-23 2002
9. KS Verma, SN Singh and HO Gupta, *Technical Challenges in computing Available Transfer Capability in Open Access*, Proceeding of International Conference CERA-01, I I T Roorkee, Feb 21-23 2002
10. KS Verma and H O Gupta, " *Enhancement of ATC using UPFC in open power market*" NPSC, I.I.T Kharagpur, December 2002, pp. 463-467.
11. KS Verma and HO Gupta,"*Modeling of different FACTS controllers for power system studies*" Workshop 2003, Conference on Modern Trends on High Voltage and Power System Engineering, July 7- 8, 2003, JEC Jabalpur
12. KS Verma, D. Singh and H.O.Gupta,"*Enhancement of transmission line capability using FACTS devices*" Seminar on Innovative Techniques for Design, Construction, Maintenance and Renovation of Transmission Lines,5-6 Feb. 2004, New Delhi, pp. 1-8.
13. K.S. Verma, A.Kumar D.K. Tiwari, Hekaito Assumi, Ritesh Anand and Saurabh Awasthi,"*Power Flow Control Using Unified Power Flow Controller*"Proceeding of International Conference PEITSICON 2005 at Science city Kolkata, Jan 28-29,2005, pp. 505-509.
14. Deependra Singh, K.S.Verma and Devendra Singh,"*Distributed Generation in deregulated environment:An Overview and Key Issues*"Proceedings of National Conference at Patiyala, PETEM05,January 28-29,2005, pp. 183-185.
15. Satendra Singh, K.S.Verma,"*Direct Load Flow Control Using UPFC in open Power Market*"Proceedings of National Conference at MMMEC Gorakhpur (EPTIMITA 06), Feb. 17-18, 2006.
16. Deependra Singh, D. Singh & K.S.Verma,"*Power flow control using Generalised Unified Power Flow Controller*,"Proceedings of National Conference at MMMEC Gorakhpur (EPTIMITA 06) Feb. 17-18, 2006.
17. Deependra Singh, D. Singh,J. P. Pandey & K.S.Verma,"*Distributed Generation and Its Location in Open Power Market*"Proceeding of International Conference Challenges and Strategies for Sustainable Energy Efficiency and Environment-2006, U. P.T.U, Lucknow, pp. 330-340.

18. Deependra Singh, Devender Singh, K.S.Verma, "GA based optimal sizing and placement of Distributed generation for loss minimization," Proceeding of International conference WASET 26, CESSE 2007, Dec 14-16, 2007, Bangkok Thailand.
19. Deependra Singh, K S Verma, J P Pandey and D S Pundhir, " Practibility of prepaid energymeter: An Indian Perspective" All India seminar Energy Management an Indian Perspective, Institution of Engineers Local chapter Lucknow, October 17-19,2008.
20. Deependra Singh, K S Verma, "Distributed power generation: energy solution for 3g" NCERU 09, EED, KNIT Sultanpur, Feb 27-28, 2009, pp 044
21. Aseem Chandel , Deependra Singh and K.S Verma, "Dynamic Modeling of Wind turbine Generator - An approach" NCERU 09, EED, KNIT Sultanpur, Feb 27-28, 2009, pp 043.
22. D. Saxena, S.N. Singh, and K.S. Verma, "Characterization of Power Quality Events Using Wavelet Transform" National Conference on Recent Advances in Electrical Power and Energy System Management (RAEPESM-2011), 25-26 March 2011 pp.
23. D. Saxena, S.N. Singh, and K.S. Verma, "Denoising of Power Quality using Wavelets" National Conference on Recent Advances in Electrical Power and Energy System Management (RAEPESM-2011), 25-26 March 2011 pp.
24. Nupur Mittal , Dr. K.S. Verma , Deependra Singh , S.P. Singh, "Multilevel Inverter : A Literature Survey On Topologies And Modulation Strategies," IEEE Students' Conference on Engineering and Systems SCES2012 Motilal Nehru National Institute of Technology Allahabad.
25. Ravindra kumar, Surya Prakash Singh, K. S. Verma, and Bindeshwar Singh, "Power quality problem as Voltage Sag: An Overview and Key Issues"National conference 'ETEEE' ,Nov 26-27, 2011, Electrical engineering department Kamla Nehru institute of technology, sultanpur
26. Bindeshwar Singh, N K Sharma, A N Tiwari & K S Verma, ""Enhancement of Voltage Stability By Coordinated Control Of Multiple Facts Controllers in Multi-Machine Power System Environments," IET Chennai 2<sup>nd</sup> *International Conference on sustainable Energy and Intelligent System Conference (SEISCON2011)*, Department of Electrical &Electronics Engineering, Dr M.G R. University, Meduravoyal, Chennai-600095, India, 20-22 July 2011.
27. Deependra Singh, K S Verma,"GA based Congestion Management in Deregulated Power System using FACTS Devices", *International Conference ICUE 2011* at Pattaya City, Bangkok, 28-30 Sept, 2011.
28. Deependra Singh, Devender Singh, R K Misra & K S Verma, "Distributed Generation and its Placement in Electric Power Systems", *Proc. All India Seminar on Energy: The Future Scenario*, IT BHU, Varanasi, pp. 297-305, March 10-11, 2007.
29. Bindeshwar Singh, S N Singh, K S Verma & Shah Alam Malik "Multi Objective VAR Planning with SVC using Particle Swarm Optimization Techniques in Power System Networks", *Proc. National Conference ETEEE-2011 at KNIT Sultanpur*, 26-27 Nov, 2011.

30. Chandarani Sutar, K S Verma and Ajay Shekhar Pandey,” Wide Area Measurement and Control Using Phasor Measurement Unit in Smart Grid. *IJCA Proceedings on International Conference in Computational Intelligence (ICCIA2012)* iccia(1), March 2012. Published by Foundation of Computer Science, New York, USA.
31. Nupur Mittal, S. P. Singh, D Singh, K S Verma., “Multilevel Inverter: A Literature survey topologies and Control Strategies” in 2<sup>nd</sup> International Conference on Power Control and Embedded System (ICPCES 2012), 17<sup>th</sup>-19<sup>th</sup> December, 2012, MNNIT Allahabad, Allahabad (U.P.).
32. D. Saxena, S.N. Singh, and K.S. Verma , "Analysis of Composite Power Quality Events Using S-Transform" IEEE Power & Energy Society Innovative Smart Grid Technologies Asia (ISGT-ASIA 2012) Conference by IEEE at Tianjin, China / 1-7 / 2012
33. D. Saxena, S.N. Singh, and K.S. Verma , "Comparison of Hilbert – Huang Transform and Wavelet Transform for Analysis of Composite Power Quality Events" All India Seminar on Recent Techniques and Future of Information Technology (RTFIT-2012) by HBTI Kanpur at H.B.T.I. East Campus, Kanpur / 1-7 / 2012
34. Chandarani, K. S. Verma and Deependra Singh, “Smart Grid approach for Wide area Measurement Protection and Control Applications” 2<sup>nd</sup> National Power and Energy System Conference, April 10-11, 2015, EED KNIT Sultanpur.
35. Sarika Shrivastava, Anurag Tripathi, K.S. Verma, 2015, “Reduction in Total Harmonic Distortion by Implementing Multi-Level Inverter Technology in Grid Integrated DFIG”, IEEE international conference on CCIS-15
36. Imran Khan, K S Verma ,Balgopal, “STATIC synchronous COMPensator (STATCOM) using FCMLI” International Conference on “Modeling of Engineering & Technology Problems” Organized By BMAS College, Keetham, Agra on, pp no.124-131, 14-16 January 2009.
37. ImranKhan, KSVerma, Balgopal, “Static Synchronous Compensator (STATCOM) using FCMLI–A devices for power system security and efficiency Enhancement” IEEE sponsored International Conference ICCET 2011 Organized By National College of Engineering Maruthakulam, Tirunelveli, Tamilnadu, pp no.444-449, 18-19 March 2011.

## **EDITOR / REVIEWER OF BOOKS AND JOURNALS**

1. International Journal of Power and Energy Conversion (IJPEC)  
ISSN (Online): 1757-1162 - ISSN (Print): 1757-1154
2. “IEEE Transactions of Power Systems”
3. Book “ Utilization of of Electrical Energy” Pearson Education, Chennai, 2009
4. Guest Editor of International Journal of Engineering Science and Technology, IJEST  
<http://www.ijest-ng.com>
5. Reviewer of The Institution of Engineers (India)



## **SUMMER/ WINTER COURSES ATTENDED**

1. Short-Term Course on Artificial Neural Network application to Power Systems at I I T Kanpur during June 14-19, 1993.
2. Winter Course on Active Filters for Improving Power Quality at REC Rourkela during 22 Dec-3<sup>rd</sup> Jan 1998.
3. Course on Voltage Security and Stability Assesment using Artificial Neural Networks at UOR Roorkee during June 11- June 25, 1998.
4. Course on Educational Technology for Excellence in Teaching at QIP Centre IIT Roorkee during June 20 to July 4 2002.
5. Short term Course on Restructuring and Financing of Power Sector at I I T Kanpur during December 26-30, 2001.
6. Course on Human Values and Professional Ethics at QIP Centre during 18-22 March 2002.
7. Attended course on e-learning at KNIT Sultanpur during July 15, 2008 to July 31, 2008.
8. Attended two days Training Programme on “Journey to Excellence in a Technical Institute” during March 6-7, 2009 at K N I T Sultanpur.
9. Attended one day DST-SERC Workshop on “Smart Energy Delivery Systems” at IIT Kanpur Jan 15, 2010.
10. Seminar on “ Nuclear Technology: A holistic Solution for Progress” September 16, 2014.

## **CONFERENCES / SEMINARS/ WORKSHOPS ATTENDED**

1. 10<sup>th</sup> National Power System Conference, NPSC98, Baroda, Dec 1998.
2. Seminar electric energy system management- Indian scenario, IIT Roorkee 1998.
3. 14<sup>th</sup> national convention of electrical engineers, IIT Kanpur, Dec 1999.
4. Cigre Regional Meeting, Nov 2001, New Delhi.
5. International conference “EAIT-2001” Dec 2001, IIT Kharagpur.
6. International Conference CERA-01, I I T Roorkee, Feb 21-23 2002.
7. National Conference on Creating and Friendly Environment for Education and Training of the Handicapped in Technical Institution, Dec 18-19, 1999, UOR Roorkee.
8. Conference on Human Values in Technical Education March 11 2002 at IIT Roorkee.
9. Attended and presented the paper in NPSC 2002 at IIT Kharagpur Dec 2002.

10. Attended workshop "Patent Awareness Workshop" at KNIT Sultanpur, December 05, 2003.
11. Attended and presented the paper in Seminar on Innovative Techniques for Design, Construction, Maintenance and Renovation of Transmission Lines, 5-6 Feb. 2004, New Delhi.
12. Attended and presented the paper in an international conference at Science City Kolkata during January 28-29, 2005
13. Attended and delivered a talk on "FACTS" in a workshop organized by Electrical Engg. Department at HBTI, Kanpur during October 28-30, 2005.
14. Attended Workshop at BIET, Jhansi on "Energy" during November 19-20, 2005
15. Attended and presented paper in the National Conference at MMMEC Gorakhpur (EPTIMITA 06), Feb. 17-18, 2006.
16. Attended International Conference, "Challenges and Strategies for Sustainable Energy Efficiency and Environment" Lucknow, June, 2006.
17. All India seminar Energy Management an Indian Perspective, Institution of Engineers Local chapter Lucknow, October 17-19, 2008.
18. National Seminar "Non Conventional Energy and its Utilization (NCERU 09), EED, KNIT Sultanpur, Feb 27-28, 2009
19. Attended two days Workshop on Project Implementation Plan TEQIP II and SWOT analysis March 3-4, 2010, UPTU Lucknow
20. Attended two days Workshop on Deployment and use of NPTEL courses during 12-13 July 2010 at I I T Kanpur.
21. Attended one day meet at Bangalore "Educators Meet - Mission 10 X" organized by Wipro September 6, 2010.
22. Attended one day workshop Recent trends in Science and Technology at Mumbai Feb 13, 2011
23. Attended one day workshop on National Programme on Education and Enhanced Learning at GBTU, Lucknow Feb 27, 2011
24. Attended one day talk on Innovations in video conferencing organized by Polycom & Presto at hotel Taj Lucknow April 29, 2011
25. Workshop on capability Building of Affiliated Institutes of GBTU during Jan 17-18, 2013 at Lucknow
26. Attended one day workshop on "Industry Academia Interaction for strengthening Technical Education" 30<sup>th</sup> August 2013, Friday, Ph D Chamber Lucknow.

27. Attended Two days workshop TEQIP II “Good Governance, Leadership and management 14-15 October 2014 , Hotel Metropolitan New Delhi.
28. Attended Workshop at NITTTR Chandigarh “UP state FDP workshop for Directors” on 16-17 Oct 2014

## **CONFERENCES / TUTORIAL ORGANIZED / CHAIRED SESSIONS**

1. Organized one day tutorial on distributed generation and FACTS March 23, 2006, KNIT Sultanpur
2. National Conference,” Technical Challenges in Power Systems” March 24-25, 2006 at KNIT Sultanpur.(Organizing Secretary)
3. Workshop “Laboratory Teaching in Electrical Engineering LTEE06” Nov 24-26, 2006.(Organizing Secretary)
4. Workshop “Laboratory Teaching in Electrical Engineering LTEE08” Feb 28-29, 2008. (Organizing Secretary)
5. International Conference,” Energy crisis: options and issues” under progress
6. Chaired one technical session in the International conference on “challenges and strategies for sustainable energy, Efficiency and Management” UP Technical university, Lucknow, June 2006
7. Chaired one technical session in the National conference on “ Technical Challenges in power systems” KNIT Sultanpur, March 25,2006
8. Chaired one session in the National Conference at MMMEC Gorakhpur (EPTIMITA 06), Feb.17-18, 2006
9. Organized Expert Lecture week during Nov 11-15, 2008 at KNIT Sultanpur.
10. National Seminar “ NON CONVENTIONAL ENERGY RESOURCES (NCERU09) Feb 27-28, 2009 AT K N I T (Organizing secretary/ Convenor)
11. Chaired session at MMMEC Gorakhpur in National Conference on Recent Advances in Electrical Power and Energy System Management (RAEPESM-2011), 25-26 March 2011
12. Organized one day workshop on “Teaching, Research, Administrative and Professional Contributions of Faculty of Engineering Institutions” May 23.2011, K N I T Sultanpur (UP)
13. Organized a National Conference at KNIT Sultanpur on “Emerging Trends in Electrical & Electronics Engineering, ETEEE- 2011” on Nov 26-27, 2011.
14. Chaired session 2<sup>nd</sup> National Power and Energy Conference, April 10-11, 2015, EED KNIT Sultanpur

## **VISITING LECTURES / KEY NOTE ADDRESSES DELIVERED**

1. Delivered a expert talk on “FACTS” in a workshop organized by Electrical Engineering Department at HBTI, Kanpur during October 28-30, 2005.
2. Delivered lectures in Sequential M Tech (Power Systems) under Quality education programme KNIT Sultanpur
3. Delivered Tutorial on “Emerging Trends in power systems” at KNIT Sultanpur March, 23<sup>rd</sup> 2008
4. Delivered talk in National Conference,” Technical Challenges in Power Systems” March 24-25, 2006 at KNIT Sultanpur
5. Delivered talk in Workshop “Laboratory Teaching in Electrical Engineering LTEE08” Feb 28-29, 2008 KNIT Sultanpur.
6. Delivered talk in Workshop “Laboratory Teaching in Electrical Engineering LTEE06” Nov 24-26, 2006 KNIT Sultanpur.
7. Delivered expert lecture in Workshop “ Advances in Electrical Engineering” at Sager Institute of Technology and Management, Barabanki, July 22-25, 2008
8. Expert Lecture in QIP Course at IIT Kanpur during March 23-28,2009.
9. Delivered Key note lecture Energy Management in Indian perspective National Conference on Recent Advances in Electrical Power and Energy System Management (RAEPESM-2011), 25-26 March 2011 at MMMEC Gorakhpur.
10. Delivered Expert Lecture on Emerging Trends in Power sector in Conference RAEE-15 at MMMUT Gorakhpur, 26 April 2015

## **ADMINISTRATIVE POST HELD/ MEMBER ACADEMIC BODIES**

1. Member of academic council KNIT Sultanpur under Awadh University
2. Member Faculty board in Electrical Engineering Department, KNIT Sultanpur
3. Member Board of Studies in Electrical Engineering, Uttar Pradesh Technical University
4. Member selection committee at Institute level for Junior Engineer, Instructors etc.
5. Coordinator laboratory experiments of AMIE Sec B students at KNIT Sultanpur
6. Paper setter / practical / Project examiner in Uttar Pradesh Technical University, Purvanchal university, Avadh University, Kanpur University etc
7. Actively participated in syllabus development in few subjects of Electrical Engineering under Uttar Pradesh Technical University , Lucknow

8. Project / Seminar Incharge in the Electrical Engineering Department three-four years
9. Worked as Head Examiner in U.P.Tech.University for evaluation in Electrical Engg. Subjects.
10. Worked as Officer Incharge Electrical Maintenance, KNIT, Sultanpur
11. Worked as Officer Incharge Central Store, KNIT,Sultanpur
12. Worked as Warden VS Hostel KNIT, Sultanpur
13. Worked as Exam Controller KNIT Sultanpur
14. Worked as Head of Department, Electrical Engg, K N I T Sultanpur from July 14,2009 to Jan 29,2010.
15. Worked as Coordinator, Lab Experiments of students for AMIE by Institution of Engineers
16. Worked as Coordinator, Skill Development Initiative Programme of Central Govt.
17. Principal (Officiating) Manver Kanshi Ram College of Information Technology Ambedkar nagar from Jan 30, 2010
18. Nominated as Member, Executive Committee of Indian Institute of Carpet Technology, Bhadoi, 2011-14
19. Nominated as member BOG Motilal Nehru National Institute of Technology, Allahabad, UP, 2010-2014.
20. Member selection committee faculty MMMUT Gorakhpur, UP Dec 13-14, 2014
21. Member selection committee faculty Engineering ( Associate Professor REC Chair) at GBPUA&T Pant nagar, Uttrakhand, Dec , 2014
22. Member selection committee faculty at GLA Mathura, UP, Jan 20, 2015

## **THESIS SUPERVISED**

### **Ph.D.**

1. "Distributed Generation and Its Location" Awarded Dec 2009 UPTU LKO, (Dr Deependra Singh KNIT Sultanpur)
2. "Power Quality Events Analysis and its Classifications in Power System" December 2012 UPTU LKO, ( Dr Dipti Saxena NIT Jaipur)
3. "Performance & Stability Considerations for Weak Grid Integrated with Wind Energy Conversion Systems" by Sarika Shrivastava under the supervision of Prof. (Dr.) K.S. Verma & Dr. Anurag Tripathi. Viva-Voce held on 25<sup>th</sup> March, 2017 AKTU LKO.

4. Optimal power flow using artificial intelligence techniques incorporating facts devices", by Satendra Singh, Faculty of electrical engineering, Dr. APJ Abdul Kalam Technical University, lucknow, india
5. Security analysis of electrical power systems by margin and sensitivity methods and security enhancement by facts devices , By Imran Khan, AIT Lucknow Submitted at Department of Electrical Engineering, Faculty of Engineering Integral university, Lucknow, india September, 2015
6. ChandaRani K Sutar, " The application of phasor measurement unit in Smart Grid" in Progress under QIP
7. Jitendra K dwivedi, " Security Analysis and its enhancement in Electric Power Systems" in progress.
8. Mansi Patnaik, " Dynamic Analysis of Wind Power Generation" in progress.

#### **M.TECH.**

1. Raj Kumar Singh, "Location of Distributed Generation in Open Power Market, June 2006 Co supervisor, Depeendra Singh.
2. Fahim Ulla, "Power system stabilizer and thyristor controlled series capacitor based damping controller for damping power system oscillations" April 2007
3. Abhishek Mishra, " Simulation of Hybrid power controller for hybridization of SPV panel with Grid" Nov 2008
4. Imran khan, "A STATCOM based on flying capacitor multilevel inverter" Submitted June 2008
5. Aseem Chandel, "Sizing and location of wind power generator in power systems using dynamic modeling" August 2008
6. Kulkarni Anant, " Stability enhancement of power systems using FACTS devices" September 2008
7. Sunil Kumar Goel, " A static synchronous series compensator (SSSC) based on flying capacitor multilevel inverter," August 2008
8. Rajeev K Chauhan, " Congestion management in deregulated market" March 2009
9. Suneel Kumar Saruj, " To develop the tin oxide based sensor to detect the flue gases like NO<sub>x</sub>, CO and SO<sub>2</sub> in thermal power plant" March 2009
10. Rahul Singh, "Placement of combustion generation in power system using dynamic modeling" September 2008

11. H S Tripathi “ Design and performance analysis of PID controller for controlled converter fed separately excited DC motor Drive” Feb 2009.
12. Manasi Patnaik, “use of FEM to determine electric field and potential distribution across Insulator Shed” Feb 2009
13. Ritul Agrawal, “Frequency Domain Controller design using MARKOV parameter and time moment method” March 2009.
14. Sarika Srivastav, Comparison of AI based solution applied to economic load dispatch problem” Jan 20, 2011
15. Pawan Kumar Sen, Performance Investigation of Three phase Induction motor fed by direct matrix converter through Indirect SVPWM approach” Jan 20, 2011
16. Sudha Sahu, “ANN Based sensor less speed control of Three phase Induction Motor” May 2011
17. Chanda Rani K Sutar, “ The application of phasor measurement unit in Smart Grid” May 2011
18. Ravindra Kumar, “Voltage Sag and their Characteristics” JUNE 2011
19. Nupur Mittal, “ Simulation and Analysis of Flying Capacitor Multilevel Inverter Fed Induction Motor Drives” Dec.2012

## **RESEARCH PROJECT UNDER TAKEN**

- 1 “Role of FACTS devices in power Systems” under Process from AICTE
- 2 “Distributed Generation in power systems, Under Process from AICTE

## **MEMBER OF PROFESSIONAL BODIES**

1. Member The Institution of Engineers (m121230-8)
2. IEEE member No. 41371016
3. Member The Society of Power Engineers No. SM/4643.

## **BOOKS/ TEACHING AID MATERIAL**

1. Prepared teaching aid material and submitted in the QIP Centre at I.I.T Roorkee, Dec 2002.
2. A Text book on “Basic Electrical Engineering” In Progress
3. A Text Book on “Electric Drive Fundamentals” Co author Deependra Singh

## **FOREIGNVISITS**

1. Visited Asian Institute Of Technology (AIT) Bangkok during Jan 16-31 2002
2. Seattle USA attend IEEE Conference and symposia
3. Visited COE Pune, Pune, India October 2011

## **NAME & ADDRESS OF REFEREE**

1- Prof Sanjay Govind Dhande  
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2-Dr Hari Om Gupta  
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## **Contributions of Prof. K. S. Verma in the Capacity of Director, K.N.I.T., Sultanpur (30.01.2010 - 28.10.2014)**

1. Improvement in the teaching, research, administrative and professional activities
2. Improvement in Governance, leadership and management of the institute
3. Bringing the autonomy and adapting the best practices to reform the academic activities by framing the institute's own Board of studies & Academic council.
4. Organizing more expert Lectures/Seminars/Workshops/Conferences for Faculty/Students skill developments.
5. Organizing various activities to improve the personality of students so that they can be fit for campus placement, competitive examinations. Promotion for preparation of students for competitive examinations from second year onwards.
6. Organizing training for faculty staff and students for upgradation of their knowledge & skills.
7. Bringing TEQIP-II project and making the road map for successful completion of the project for PG & research in the Institute.
8. Organizing meetings like BOG, Finance etc. on regular basis for proper functioning of the Institute.
9. Adapted new and good transparent practices in Establishment, Finance & Purchase, Store for smooth functioning of these sections. Audit the account by Local Audit team on regular basis. There is very few cases which are raised by A.G.U.P/ Audit team, transparency and openness has been kept in all cases. Any one can see at any time. Settlement of many legal cases in High Court, RTI etc.
10. Establishment of new Govt. Engg. College at Ambedkar Nagar, Lab and Class rooms as per guidelines of UPTU and Government, Land settlement at Sonebhadra and Kannauj.
11. Signed MOU with IIT Kanpur and other nearby good Institutions/organizations for better academic performance and for Industry Interaction.
12. Solving the Land issues with the help of Govt. such as 4 hectare land for K.N.I.T. Hostel and 80 bigha land solution to K.N.I.T. in which it is situated for establishing the lab., Library, Class room etc.
13. Framing road map for development of the Institute in terms of Human resources, Lab equipment upgradation and infrastructure. Detailed study involving faculty of IITs, industry leaders to identify all the major gaps and a suitable strategy to bridge them evolved.
14. Improvement in opening new PG courses, establishment of new laboratories, increasing intake etc.(higher education Deptt.).
15. Conducting selection for regular faculty, staff, W.S. etc./CAS Selection.

16. Bringing the fund from the Govt. for Girls Hostel, Toilets blocks, SC/ST Hostel from AICTE, Boys Hostel from OBC and other funding agencies.
17. Bringing funding projects from AICTE, DST and promoting the faculty to bring more assistantship from the funding agencies like travel grant etc. More Summer/Winter/Training Programme (to send the faculty for their carrier prospectus).
18. Organizing visits of various leading persons for suggestions and mentoring from IIT, BHU, IIT, Kanpur, MNNIT, Allahabad & Foreign Countries. Involving faculty to complete their Ph.D. from MNNIT, IIT's and UPTU which outcome is seen as more research papers in journals.
19. Bringing QIP Centre, IBM Centre and BARC academic out reach programme.
20. Promoting faculty to visit Industries to enhance the relationship that is good for campus placement. Regular visit of industries and academic institute for best practices.
21. Engaging the students/faculty/staff for social work, like blood donation, kashish, teach for technocrats, earn while learn, printing of Dristicone news paper, awareness of clearness in surrounding, Traffic rules, Van Mahotsava.
22. Assisted MNNIT, Carpet Technology, Bhadoi, UPTU as member in various committees.
23. Ensured repair/ maintenance of old goods before purchasing new.
24. Delivered expert lectures at various organizing like HBTI, HAL, MKRECIT& IIT's.
25. Member of Selection Committee of Director at IERT, Allahabad & Polytechnics in UPSC Allahabad.
26. Opening of various facilities like New Bank, Parag Dairy, shops for daily use for betterment of life in the campus for students and staff.
27. Organizing various Workshop and programme for personality development of the students related with health awareness, Yoga, Spiritual Lectures and efficiency through mind engineering.
28. Organizing alumni meet in twice a year for students excellence (UG & PG), and their scholarship, help to enhance the facilities in the Institute. Apart from above faculty support & research excellence, to develop infrastructures in the area of greatest need and training placement assistance.
29. KNIT faculty development /Training at IITs and the global exposure of faculty/students
30. Increased Government Support in various aspects which has helped the construction of 4 stories female hostel to meet the long felt need. 100% girls students are residing inside the campus, making smart class room for better teaching etc. State Govt has been generous in sending the faculty for their Ph d under QIP and in many other issues related with students and staffs.

31. Enhanced Academic Ambience and research culture: the internet bandwidth has been increased phenomenally from 2mbps in earlier times to 100 mbps now in addition to another 1 Gbps from national knowledge network for sharing course contents. Internet facilities has been given in hostels, faculty chambers and their residences also. Geater open access of library and laboratories. KNIT has also adopted a policy of liberal consultancy rules to encourage faculty to take up consultancy assignments and resource generation for the institute.
32. Published more than 200 research papers in top peer reviewed international journals by faculty members/students producing more than 20 Ph.D and 100 M. Tech theses in last five years, KNIT students won various prizes in events organized by IITs, NITs and industries. KNIT students performances in competitions like GATE, IAS & IES has been increased a student got 2<sup>nd</sup> rank in IES in year 2013. Many awards won by the students in curricular, research and extracurricular activities are due to the full freedom that the students enjoy in a highly democratic, open and transparent system.

The above contributions clearly shows that given an opportunity, total autonomy, and the freedom to excute its strategic plans by passionate people with right skills on its governing board to govern it, the opportunity to develop and utilize modern management tools and practice, the institution is now capable for facing the 21<sup>st</sup> century challenges in technical education. With these efforts, I hope the institute will excel and flourish in right directions in near future.

**Contributions of Prof. K. S. Verma in the Capacity of  
Director, Rajkiya Engineering College Ambedkar Nagar (15.01.2015  
– Till Date)**

1. Joined as Regular Director on 15.01.2015. Speed up the construction of Institute as per AICTE norms as it was very slow earlier.
2. Established laboratories, Workshop, Library, Interactive class rooms, setup class rooms, Hostels and other administrative offices, Library Automation, Equipped the labs with latest softwares
3. Established Wi-Fi network in whole campus with 100 Mbps lease line
4. Got the AICTE approval as this college was running as constituent college of AKTU Lucknow.
5. Working on gap filling for human resources, infrastructures and Labs to get NBA Accreditation and academic Autonomy
6. Improvement in the Drinking water facility, Hygienic mess and sports facilities for students.
7. Participated Swakshta abhiyan, shramdan, Plantation with DFO & country race with faculty, staff and students.
8. Improvement in the teaching, research, administrative and professional activities.
9. Improvement in Governance, leadership and management of the institute
10. Efforts to Bring the autonomy and adapting the best practices to reform the academic activities by framing the institute's own Board of studies & Academic council.
11. Organizing more expert Lectures/Seminars/Workshops/Conferences for Faculty/Students skill developments.
12. Organizing various activities to improve the personality of students so that they can be fit for campus placement, competitive examinations. Promotion for preparation of students for competitive examinations from second year onwards.
13. Organizing training for faculty staff and students for upgradation of their knowledge & skills.
14. Bringing TEQIP-III project and making the road map for successful completion of the project for infrastructure & research in the Institute.

## Brief Biodata

**DR. K. S. VERMA, PROFESSOR, K.N.I.T., SULTANPUR (U.P.) AND  
DIRECTOR RAJKIYA ENGINEERING COLLEGE AMBEDKARNAGAR**



Dr. K. S. Verma did his B. Tech. and M. Tech. from KNIT Sultanpur and obtained his Ph.D. degree in Electrical Engineering (Power Systems) from Indian Institute of Technology, Roorkee. He is presently working as Director MKRECIT Ambedkar nagar (U.P.). He has served as Director of Kamla Nehru Institute of Technology, Sultanpur (U.P.) from 30.01.2010 to 28.10.2014. He is the Founder Principal of M.K.R.E.C.I.T. Ambedkar Nagar, a new generation Institute of Govt. of Uttar Pradesh. He had been given responsibility for land procurement by the Govt. of Uttar Pradesh for the starting of new colleges at Kanauj and Sonebhadra. He has also been given various administrative assignments to solve the issues at Government level.

Starting his career as Lecturer, he worked in the capacities of Assistant Professor, Professor, and Professor & Head of Electrical Engineering at KNIT Sultanpur. He has been extending his unstinted services to the nation for the past 27 years, in the field of technical education and research. He has also been the BOG Member of Motilal Nehru National Institute of Technology, Allahabad; Member of Executive Committee of Indian Institute of Carpet Technology, Bhadoi. He had undertaken various responsibilities at University level such as Member (Executive Council), Member (Finance Committee), Member (Central Admission Board (CAB)) etc.

He has taught various subjects of Electrical Engineering at U.G. and P.G. levels. He had delivered expert lectures at various institutions and organizations like IITK, KNIT, MKRECIT and HAL. He has published more than 50 research papers in International journals and conferences of repute. He has guided several M. Tech. and Ph.D. theses in the field of Electrical Engineering. His research interest includes Power Systems, Flexible AC Transmission Systems, Planning and Operation of Distributed Generation, and Modeling & Simulation of Power Systems.

He has visited Asian Institute of Technology, Bangkok during January 16-31, 2002 and other organizations of repute to enhance the technical skill. As an academician, researcher, administrator and visionary, Prof. Verma successfully achieved the societal objectives of balanced growth in all spheres with the help of the powerful tool of technical education and research.