CV
VIKASH KUMAR GUPTA

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Assistant Professor Department of Applied Sciences and Humanities, NIFFT, Hatia-3	Contact Phone	(+91) 8986666895 (+91) 7903670766

Professional Experiance

1. NIFFT, Hatia, Ranchi from 1/12/2016 to till date.
2. BIT Mesra, Ranchi from 2/3/2015 to 30/11/2016.
3. KIIT University, Bhubaneswar from 2/4/2014 to 21/2/2015.

Educational Qualification:

Ph.D in **Power System** from **Indian School of Mines, Dhanbad**, Jharkhand.
M.Tech degree in **Power System** (2009-2011) from **B.I.T. Sindri**, Dhanbad, Jharkhand.
Bachelor of Engineering (B.E) in Electrical & Electronics Engineering (2005-2009) from **JCE**, Anna University (Chennai), India.

Ph.D Thesis Title: FACTS devices for the increased loadability of Power System.

Publications:

International/ National Journal Published:

1. Sanjay Kumar, B. Bhattacharyya and Vikash Kumar Gupta, "Present and Future Energy Scenario in India," *Journal of The Institution of Engineers (India): Series B, Springer*, vol. 95, issue 3, pp. 247-254, 2014.
2. Vikash Kumar Gupta, B. Bhattacharyya and Sanjay Kumar, "Enhancement of Power System Loadability with FACTS Devices," *Journal of The Institution of Engineers (India): Series B,* vol. 95, issue 2, pp. 113-120, 2014.

3. B. Bhattacharyya, Vikash Kumar Gupta and Sanjay Kumar, "UPFC with Series and Shunt FACTS Controllers for the Economic Operation of a Power System," *Ain Shams Engineering Journal*, *Elsevier*, vol 5, issue 3, pp. 775-787, 2014.

4. B. Bhattacharyya and Vikash Kumar Gupta, "Fuzzy Genetic Algorithm for the optimal placement of Flexible AC Transmission Systems devices in a power system", *Electric Power Components and Systems,* vol. 42, issue 8, pp. 779-787, 2014.

5. B. Bhattacharyya and Vikash Kumar Gupta, "Fuzzy based Evolutionary Algorithm for Reactive Power Optimization with FACTS Devices," *International Journal of Electrical Power and Energy Systems*, *Elsevier*, vol. 61, pp. 39-47, 2014.

6. B. Bhattacharyya, Vikash Kumar Gupta and Sanjay Kumar, "Reactive Power Optimization with SVC & TCSC using Genetic Algorithm," *Advance in Electrical and Electronics Engineering* (AEEE), vol. 12, issue 1, pp. 1-12, 2014.

7. B. Bhattacharyya, Vikash Kumar Gupta and S. Das, "Evolutionary Programming for Reactive Power Planning Using FACTS Devices," *WSEAS Transaction on Power System*, vol. 9, issue 1, pp. 1-6, 2014.

8. B. Bhattacharyya, Vikash Kumar Gupta and Sanjay Kumar, "Comparative study of GA & DE algorithm for the economic operation of a Power System using FACTS devices," *Archives of Electrical Engineering, Versita,* vol. 64, no. 4, pp. 541-552, 2013.

9. Vikash Kumar Gupta, B. Bhattacharyya and S.K.Goswami, "Swarm Intelligence based approach for the loss minimum & cost minimum configuration of an interconnected Power System", *Journal of CPRI*, vol. 9, no. 1, March-2013.

10. B. Bhattacharyya, S.K.Goswami and Vikash Kumar Gupta, "Particle Swarm Intelligence based allocation of FACTS controller for the increased load ability of Power system", *International Journal on Electrical Engineering and Informatics (IJEEI)*, vol. 4, issue- 4, pp. 584-596, Dec-2012.

11. B. Bhattacharyya, Vikash Kumar Gupta, and S.K.Goswami, "Application of DE & PSO Algorithm For The Placement of FACTS Devices For Economic Operation of a Power System", *WSEAS Transaction on Power System*, vol. 7, issue- 4, pp. 209-216, Oct-2012.

Paper Presented in the International/ National Conferences.

1. Shubhu Saurav, Vikash Kumar Gupta and Sudhanshu Kumar Mishra, "Moth-Flame Optimization based Algorithm for FACTS Devices Allocation in a Power System", *presented in 2017 International Conference on Innovations in information Embedded and Communication Systems (ICIIECS).*

2. Archana, Deepak Kumar and Vikash Kumar Gupta, "Optimal Reconfiguration of Primary Power Distribution System using Modified Teaching Learning based Optimization Algorithm", *presented in 1st IEEE International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES-2016).*

3. Rajat Kumar Singh and Vikash Kumar Gupta, "Comparison of GSA and PSO based Optimization techniques for the optimal placement of Series & Shunt FACTS devices in a Power System", *Presented in International Conference on Artificial Intelligence*

and Evolutionary Computations in Engineering System (ICAIECS-2016), 19-21 May 2016.

4. Digambar Kumar, Vikash Kumar Gupta and R. C. Jha, "Implementation of FACTS devices for improvement of Voltage Stability using Evolutionary Algorithm", *Presented in 2016 IEEE International Conference on Power Electronics, Intelligent Control and Energy Systems* (IEEE ICPEICES 2016) 4-6 July 2016 at DTU.

5. Vikash Kumar Gupta, B. Bhattacharyya and Sanjay Kumar, "Fuzzy-DE approach for the optimal placement of FACTS devices to relief Congestion in a power system," *International Conference on Control, Instrumentation, Energy and Communication*, *CIEC-2014*, 31st Jan. – 02 Feb. 2014, Kolkata.

6. Vikash Kumar Gupta, B. Bhattacharyya and Sanjay Kumar, "Optimal Placement of Series & Shunt FACTS Devices in a Power System using Differential Evolution", *MFIIS-2013*, Kolkata.

7. Vikash Kumar Gupta, B. Bhattacharyya and Sanjay Kumar, "Fuzzy Based Evolutionary Algorithm for The Optimal Planning of FACTS Devices in an Interconnected Power System", *IEEE Workshop on Computational Intelligence: Theories, Applications and Future Directions, IIT Kanpur*, July-2013.

8. Sanjay Kumar, Vikash Kumar Gupta and B. Bhattacharyya, "Application of GA & DE Algorithm for the placement of FACTS Devices in cost Economic operation of power system", *Presented in SAP-BEATS 2013*, 23-24 Feb.2013.

9. Vikash Kumar Gupta, B. Bhattacharyya and S. K. Goswami, "SVC & TCSC for Minimum operational Cost under Different loading Condition", *presented in NPSC - 2012, IIT-BHU,* 12-14 Dec. 2012.

10. Vikash Kumar Gupta, B. Bhattacharyya and S. K. Goswami, "PSO based placement of FACTS Devices for the Economic operation of power system", *presented in NCPD -2012, CPRI*, 8-9 Nov.2012.

Book Chapter:

1. Rajat Kumar Singh and Vikash Kumar Gupta, "Comparison of GSA and PSO based Optimization techniques for the optimal placement of Series & Shunt FACTS devices in a Power System", *published as lecture notes on Artificial Intelligence and Evolutionary Computations in Engineering Systems, 2017.*

Short-term Course/ Industrial Training Attended:
1. One week short term course on Recent Advancements in HVDC & FACTS (RAHF-2019) at NIT Jamshedpur.
2. Two week industrial training at HEC

Membership of Professional Body
➢ IAENG
➢ Associate Member of IEI.

Achievements
➢ **Best paper award** at MFIIIS-2013 conference.
➢ Won **Maths Olympiad** Certificate at School Level.
➢ Participated in Technical events in **National Level** Technical Symposium