

**ELECTRICAL ENGINEERING DEPARTMENT,  
MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY  
ALLAHABAD, PRAYAGRAJ-211004  
(CURRICULUM VITAE)**

***Dr. PRASHANT KUMAR TIWARI***

**Designation: Assistant Professor Grade-I**

**Academic Qualification**

Examination Passed	Name of the Board & College	Year of Passing	Remarks
High School (10 <sup>th</sup> )	Bihar Board, D.A.V. High School Siwan	1997	First Division
Intermediate (10+2)	Bihar Board, D.A.V. College Siwan	1999	First Division (Distinction in Mathematics)

**Technical Qualification**

**Under Graduation**

Degree/Specialization	Name of the Board	Year of Passing	Remarks
3 Years Diploma (Electrical Engineering)	Board of Technical Education, U.P. (India)	2004	First Division (2 <sup>nd</sup> Place Secured in Branch)
B. Tech. (Electrical Engineering)	U.P. Technical University, Lucknow, U.P. (India)	2007	First Division (HONOURS), 2 <sup>nd</sup> Place Secured in Branch

**Post Graduation (M. Tech.)**

Degree/Specialization	Name of Institution	Year of Passing
M. TECH. (Power System)	N. I. T. Hamirpur (H.P.) (India)	2009

**Thesis Topic:** Optimal Location of FACTS Devices Using Genetic Algorithm

**Doctor of Philosophy (Ph.D.)**

Degree/Specialization	Name of Institution	Year of Degree Award
Ph.D. (Electrical Engineering)	N. I. T. Hamirpur (H.P.) (India)	2014

**Thesis Topic:** Optimal Location of FACTS Devices in Deregulated Environment of Power Sector

**Areas of Interest**

Power System, FACTS, Deregulation & Restructuring of Power Sector & Renewable Energy Sources i.e. wind, solar integration in competitive power markets.

- (1) Ph.D. (Electrical Engineering)
- (2) M.TECH. (Power System)
- (3) B.TECH. (Electrical Engineering)
- (4) DIPLOMA (Electrical Engineering)

**Contact Information:**

**Contact No.:** +91-9435389201

**Mailing Address:**

Dr. Prashant Kumar Tiwari,  
Assistant Professor Grade-I,  
Department of Electrical Engineering,  
M.N.N.I.T. Allahabad, Prayagraj -  
211004- (U.P.)

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- (1). prashant081.in@gmail.com

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**Personal Data:**

**Name** : Dr Prashant Kumar Tiwari  
**Date of Birth** : 15 Feb 1983  
**Father's Name** : Dr. Govind Tiwari  
**Gender** : Male  
**Marital Status** : Married  
**Languages Known:** English, Hindi  
**Nationality** : Indian  
**Interests** : Teaching and Research

**Professional Membership**

SN	Organization	Member Grade
1.	IEEE (Institution of Electrical & Electronics Engineers)	Member
2.	IEEE Power & Energy Society (PES)	Member
3.	IEI (Institution of Engineers India)	Member
4.	IACSIT (International Association of Computer Science & Information Technology)	Member
5.	IAENG (International Association of Engineers)	Member
5.	WASET (World Academy of Science, Engineering & Technology)	Member

**Journal's Reviewer**

Continuous/Regular reviewer of following reputed international journals

- [1]. IEEE Transactions on Power Systems.
- [2]. IET Generation, Transmission & Distribution.
- [3]. Electric Power Components & Systems (Taylor & Francis Group).
- [4]. Renewable & Sustainable Energy Reviews (Elsevier).
- [5]. Energy Policy (Elsevier).
- [6]. Renewable Energy Focus (Elsevier).
- [7]. International Journal of Computers & Electrical Engineering (Elsevier).
- [8]. Journal of Renewable & Sustainable Energy (AIP).
- [9]. International Journal of Computer & Electrical Engineering (IACSIT).

**Experience Details**

Sl. No.	Name of the Post Held	Pay Scale	Period	Organization
1.	Assistant Professor Grade-I	Level 12 (7 <sup>th</sup> CPC)	29-08-2019 to till date	M.N.N.I.T. Allahabad
2.	Assistant Professor Grade-I	Level 12 (7 <sup>th</sup> CPC)	01-06-2018 to 28-08-2019	N.I.T. Silchar
3.	Assistant Professor Grade-II	Level 11 (7 <sup>th</sup> CPC)	01-01-2016 to 31-05-2018	N.I.T. Silchar
4.	Assistant Professor	PB-III, AGP: Rs. 7000/-	20-11-2015 to 31-12-2015	N.I.T. Silchar
5.	Assistant Professor	PB-III, AGP: Rs. 6000/-	09-11-2012 to 19-11-2015	N.I.T. Silchar

**Award(s) Received**

**Name of Award:** "POSOCO Power System Award (PPSA-2013)" for Ph.D. research work.

**About Award:** POSOCO Power System Award 2013 (PPSA) is the recognition of outstanding contributions made in the field of power sector, a joint initiative of POSOCO, a wholly subsidiary of POWERGRID and Foundation for Innovation & Technology Transfer (FITT) - I.I.T. Delhi.

**Achievement:** Selected among the top fifteen candidates in the Doctoral category for PPSA-2013.

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**Details of International Journal Publications**

**Published Papers in SCI, SCIE, ESCI& SCOPUS Journals (20 NOs)**

- [1]. Subhojit Dawn, **Prashant Kumar Tiwari**, Arup Kumar Goswami, “An Approach for Long Term Economic Operations of Competitive Power Market by Optimal Combined Scheduling of Wind Turbines and FACTS Controllers”, published in *Energy (Elsevier)*, vol. 181, pp. 709-723, **Impact Factor: 4.968**, August 2019. (SCI Journal)
- [2]. Furquan Nadeem, Mohd A. Aftab, S.M.S. Hussain, Ikbali Ali, **Prashant Kumar Tiwari**, Arup Kumar Goswami, T. S. Ustun, “Virtual Power Plant Management in Smart Grids with XMPP based IEC 61850 communication”, published in *Energies*, 12, 2398; doi:10.3390/en12122398, **Impact Factor: 2.676**, June 2019 (SCIE-SCOPUS Journal)
- [3]. **Prashant Kumar Tiwari**, Manash Kumar Mishra, Subhojit Dawn, “A two step approach for improvement of economic profit and emission with congestion management in hybrid competitive power market”, published in *International Journal of Electrical Power and Energy Systems (Elsevier)*, vol. 110, pp. 548-564, **Impact Factor: 3.61**, March 2019. (SCI Journal)
- [4]. Subhojit Dawn, **Prashant Kumar Tiwari**, Arup Kumar Goswami, Ankit Kumar Singh, Rajesh Panda, “Wind Power: Existing Status, Achievements and Government’s Initiative towards Renewable Power Dominating India”, published in *Energy Strategy Reviews*, vol. 23, pp. 178-199, **Impact Factor: 2.164**, January 2019. (SCIE-SCOPUS Journal)
- [5]. Furquan Nadeem, S.M. Suhail Hussain, **Prashant Kumar Tiwari**, Arup Kumar Goswami, Taha Selim Ustun, "Comparative Review of Energy Storage Systems, Their Roles and Impacts on Future Power Systems," published in *IEEE Access*, vol. 7, pp. 4555-4585, **Impact Factor: 3.557**, December 2018. (SCIE-SCOPUS Journal)
- [6]. Rajesh Panda, **Prashant Kumar Tiwari**, "Economic Risk based Bidding Strategy for Profit Maximization of Wind Integrated Day-Ahead and Real-Time Double Auctioned Competitive Power Markets," published in *IET Generation, Transmission & Distribution*, vol. 13, issue 2, pp. 209-218, **Impact Factor: 2.618**, October 2018. (SCI Journal)
- [7]. Rituparna Mitra, Arup Kumar Goswami. **Prashant Kumar Tiwari**, "Optimal Selection of Voltage Sag Mitigating Devices for Micro Level Customer in Distribution System", published in *IET Renewable Power Generation*, vol. 13, issue 1, pp. 191-200, **Impact Factor: 3.488**, October 2018. (SCI Journal)
- [8]. Subhojit Dawn, **Prashant Kumar Tiwari**, Arup Kumar Goswami, and Rajesh Panda, ‘An Approach for System Risk Assessment and Mitigation by Optimal Operation of Wind Farm & FACTS Devices in Centralized Competitive Power Market’, published in *IEEE Transactions on Sustainable Energy*, vol. 10, issue 3, pp. 1054-1065, **Impact Factor: 4.909**, July 2018/2019. (SCI Journal)
- [9]. Subhojit Dawn, **Prashant Kumar Tiwari**, Arup Kumar Goswami, “An efficient approach for establishing the economic and operating reliability via optimal coordination of wind-PSH-solar-

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- storage hybrid plant in highly uncertain double auction competitive power market”, published in *IET Renewable Power Generation*, vol. 12, Issue 10, pp. 1189-1202, **Impact Factor: 3.488**, E-ISSN: 1752-1424, August 2018. (SCI Journal)
- [10]. Subhojit Dawn, **Prashant Kumar Tiwari**, Arup Kumar Goswami, “An approach for efficient assessment of the performance of double auction competitive power market under variable imbalance cost due to high uncertain wind penetration”, published in *Renewable Energy (Elsevier)*, vol. 108, pp. 230-243, **Impact Factor: 4.068**, ISSN: 0960-1481, February 2017. (SCI Journal)
- [11]. Rituparna Mitra, Arup Kumar Goswami, **Prashant Kumar Tiwari**, “Voltage Sag Assessment using Type-2 Fuzzy system considering uncertainties in Distribution system”, published in *IET Generation, Transmission & Distribution*, vol. 11, issue 6, pp. 1409-1419, **Impact Factor: 2.011**, ISSN: 1751-8695, January 2017. (SCI Journal)
- [12]. Subhojit Dawn, **Prashant Kumar Tiwari**, Arup Kr. Goswami, Manas Kr. Mishra, “Recent developments of solar energy in India: Perspectives, strategies and future goals”, published in *Renewable & Sustainable Energy Reviews (Elsevier)*, vol. 62, pp. 215-235, April-2016. **Impact Factor: 7.896**, ISSN: 1364-0321. (SCI Journal)
- [13]. Sadhan Gope, Arup Kumar Goswami, **Prashant Kumar Tiwari**, Subhasish Deb, “Rescheduling of real power for congestion management with integration of pumped storage hydro unit using firefly algorithm”, published in *International Journal of Electrical Power and Energy Systems (Elsevier)*, vol. 83, pp. 434-442, April 2016, **Impact Factor: 2.193**, ISSN: 0142-0615. (SCI Journal)
- [14]. Subhojit Dawn, **Prashant Kumar Tiwari**, “Improvement of economic profit by optimal allocation of TCSC and UPFC with wind power generators in double auction competitive power market”, published in *International Journal of Electrical Power and Energy Systems (Elsevier)*, vol. 80, pp. 190-201, January 2016. **Impact Factor: 2.193**, ISSN: 0142-0615. (SCI Journal)
- [15]. **Prashant Kumar Tiwari**, Yog Raj Sood, “An Efficient Approach for Optimal Allocation and Parameters Determination of TCSC with Investment Cost Recovery under Competitive Power Market”, published in *IEEE Transactions on Power Systems*, vol. 28, no. 3, pp. 2475-2484, August 2013, **Impact Factor: 2.921**, ISSN: 0885-8950. (SCI Journal)
- [16]. **P.K. Tiwari**, Y.R. Sood, “Efficient and Optimal Approach for Location and Parameter Setting of Multiple Unified Power Flow Controllers for a Deregulated Power Sector”, published in *IET Generation, Transmission & Distribution*, vol. 6, issue 10, pp. 958-967, October 2012, **Impact Factor: 1.414**, ISSN: 1751-8695. (SCI Journal)
- [17]. Naveen Kumar Sharma, **Prashant Kumar Tiwari**, Yog Raj Sood, “A comprehensive analysis strategies, policies and development of hydropower in India: Special emphasis on small hydropower”, published in *Renewable & Sustainable Energy Reviews (Elsevier)* vol. 18, pp. 460-470, February 2013, **Impact Factor: 6.577**, ISSN: 1364-0321. (SCI Journal)
- [18]. Naveen Kumar Sharma, **Prashant Kumar Tiwari**, Yog Raj Sood, “Solar energy in India: Strategies, policies, perspectives and future potential”, published in *Renewable & Sustainable*

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*Energy Reviews (Elsevier)*, vol. 16, issue 1, pp. 933-941, January 2012, **Impact Factor:** 6.577, **ISSN:** 1364-0321. (SCI Journal)

- [19]. Subhojit Dawn, **Prashant Kumar Tiwari**, Arup Kr. Goswami, “A Joint Scheduling Optimization Strategy for Wind and Pumped Storage Systems Considering Imbalance Cost & Grid Frequency in Real-Time Competitive Power Market”, published in *International Journal of Renewable Energy Research*, vol. 6, no. 4, pp. 1248-1259, June 2016. **Impact Factor:** 0.898, **ISSN:** 1309-0127. (ESCI-SCOPUS Journal)
- [20]. Sadhan Gope, Arup Kumar Goswami, **Prashant Kumar Tiwari**, “Transmission Congestion Management using a Wind Integrated Compressed Air Energy Storage System”, published in *Engineering, Technology & Applied Science Research*, vol. 7, no. 4, pp. 1746-1752, July 2017, **ISSN:** 1792-8036. (ESCI Journal)

**Published Papers in other than SCI, SCIE, ESCI& SCOPUS Journals (06 NOs)**

- [1]. Sadhan Gope, Arup Kumar Goswami, **Prashant Kumar Tiwari**, “Generator Rescheduling under Congested Power System with Wind Integrated Competitive Power Market”, published in *International Journal of Sensors & Transducers*, vol. 209, issue 2, pp. 50-55, February 2017, **ISSN:** 2306-8515.
- [2]. Arun Abhindranath, **Prashant Kumar Tiwari**, “Social Welfare Calculation and Comparison for Different Operating Strategy of Wind-pumped Storage Hybrid Plant in Competitive Power Market”, published in *Procedia Technology (Elsevier)*, vol. 21, pp. 68-75, January 2016. (Elsevier International Conference ‘Smart Grid Technologies’, August 6-8, 2015), **DOI:** 10.1016/j.protcy.2015.10.011
- [3]. **Prashant Kumar Tiwari**, Yog Raj Sood, “An Efficient Approach for Optimal Placement of TCSC in Double Auction Power Market”, published in *International Journal of Electronics and Electrical Engineering (IJEEE) (A Journal of World Academy of Science, Engineering and Technology (WASET))*, vol. 6, pp. 321-326, June 2012, **ISSN Print:** 2010-3964, **ISSN Online:** 2010-3972.
- [4]. **Prashant Kumar Tiwari**, Yog Raj Sood, “Optimal Location of FACTS Devices in Power System by Artificial Intelligence based Optimization Techniques: A Review”, published in *International Journal of Innovations in Electrical Power Systems (IJIEPS)*, vol. 2, no. 2, pp. 171-181, July-December 2010, **ISSN:** 0975-5306.
- [5]. Naveen Kumar Sharma, **Prashant Kumar Tiwari**, Yog Raj Sood “Review of Artificial Intelligence Techniques Application to Dissolved Gas Analysis on Power Transformer” published in *International Journal of Computer and Electrical Engineering (IJCEE)*, vol. 3, no. 4, pp. 577-582, August 2011, **ISSN:** 1793-8198.
- [6]. Naveen Kumar Sharma, **Prashant Kumar Tiwari**, Yog Raj Sood, “Perspectives of Renewable Energy Sources in the Future Indian Competitive Electricity Markets”, published in *International Journal of “Trends in Electrical Engineering” (STM Journals)*, vol. 2, issue 3, December 2012, **ISSN:** 1941-7012.

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**Book Chapter**

Sl. No.	Chapter Title	Author(s)	Book Title	Publisher	DOI No./ Page Details
1.	Congestion constraint corrective rescheduling in the competitive power market with the integration of a wind farm	Sadhan Gope, Arup Kumar Goswami and <b>Prashant Kumar Tiwari</b>	Computer, Communication and Electrical Technology	<b>CRC Press 2017, Taylor &amp; Francis Group</b> , 6000 Broken Sound Parkway NW, Suite 300, Boca Raton, FL 33487-2742.  Print ISBN: 978-1-138-03157-9, eBook ISBN: 978-1-315-40061-7	<a href="https://doi.org/10.1201/9781315400624-55">https://doi.org/10.1201/9781315400624-55</a> Pages 289–294

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**Details of Publications in Magazine (11 NOs)**

- [1]. Subhojit Dawn, **Prashant Kumar Tiwari**, “Maximizing the Profit by Optimal Installation of TCSC with Wind Power Generator in Deregulated Electricity Market”, **published** in Smart Energy Magazine, vol. 1, issue 3, pp. 62-64, June-July 2014, **ISSN: 2348-5027**.
- [2]. **Prashant Kumar Tiwari**, Yog Raj Sood, “Flexible Alternating Current Transmission Systems (FACTS): An Indian Scenario”, **published** in *Electrical India (National Magazine)*, Chary Publication, vol. 50, no. 9, September 2010.
- [3]. **Prashant Kumar Tiwari**, Naveen Kumar Sharma, Yog Raj Sood, “Power Quality issues in Deregulated Environment of Power Sector”, **published** in *Electrical India (National Magazine)*, Chary Publication, vol. 51, no. 3, March 2011.
- [4]. **Prashant Kumar Tiwari**, Naveen Kumar Sharma, Yog Raj Sood, “Novel Concept of Quantization of Congestion in Deregulated Power Sector”, **published** in *Electrical India (National Magazine)*, Chary Publication, vol. 51, no. 5, May 2011.
- [5]. Naveen Kumar Sharma, **Prashant Kumar Tiwari**, Yog Raj Sood “Impact of Renewable Energy in Competitive Electricity Market: Future Aspects” **published** in *Electrical India (National Magazine)*, Chary Publication, vol. 51, no. 10, pp. 88-91, October 2011.
- [6]. **Prashant Kumar Tiwari**, Naveen Kumar Sharma, Yog Raj Sood, “Current Status and Trends of Indian Power Sector”, **published** in *Electrical India (National Magazine)*, Chary Publication, vol. 51, no. 11, pp. 50-57, November 2011.
- [7]. Naveen Kumar Sharma, **Prashant Kumar Tiwari**, Yog Raj Sood, “Current Power Scenario of Punjab: A Special Emphasis of Renewable Energy Sources”, **published** in *Electrical India (National Magazine)*, Chary Publication, vol. 51, no. 11, pp. 274-278, November 2011.

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- [8]. Naveen Kumar Sharma, **Prashant Kumar Tiwari**, Yog Raj Sood, “Renewable Energy Status and Future Plans in Indian Restructured Power Sector”, **published** in *Electrical India (National Magazine)*, Chary Publication, vol. 51, no. 12, pp. 88-93, December 2011.
- [9]. **Prashant Kumar Tiwari**, Naveen Kumar Sharma, Yog Raj Sood, “An Efficient Approach for Optimal Location of FACTS Devices in Power Transmission Systems”, **published** in *Electrical India (National Magazine)*, Chary Publication, vol. 52, no. 2, pp. 58-63, February 2012.
- [10]. Naveen Kr. Sharma, **Prashant Kumar Tiwari**, Yog Raj Sood, “Power Transformer Insulating Oil Aging Diagnosis by using Dissolved Gas Analysis”, **published** in *Electrical India (National Magazine)*, Chary Publication, vol. 52, no. 3, pp. 60-66, March 2012.
- [11]. Naveen Kumar Sharma, **Prashant Kumar Tiwari**, Yog Raj Sood, “Power Market for Renewable Energy Efficiency in India”, **published** in *Electrical India (National Magazine)*, Chary Publication, vol. 52, no. 12, December 2012.

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## Details of International Conference Publications

### International Conferences outside India (08 NOs)

- [1]. Rajesh Panda, **Prashant Kumar Tiwari**, "Security Constrained Unit Commitment Economic Dispatch Based Optimal Bidding Strategy in Risky Environment", accepted for publication in *IEEE PES GTD Grand International Conference* and Exposition Asia 2019, from 19 - 23 March 2019 at Bangkok, Thailand
- [2]. Sadhan Gope, Arup Kumar Goswami, **Prashant Kumar Tiwari**, “Impact Assessment of Bi-directional Solar Electric Vehicle in Competitive Electricity Market under Congested Transmission System”, published in *Procedia Computer Science*, vol. 143, pp. 653-662, 2018, E-ISSN: 1877-0509. **SCOPUS Indexed**
- [3]. Sadhan Gope, Arup Kumar Goswami and **Prashant Kumar Tiwari**, “Congestion Mitigation Considering Solar Electric Vehicle: A Possible Solution for Today’s Electricity Market”, published in *International Conference* on Sustainable Energy and Environment Sensing (SEES 2018), University of Cambridge , U.K., 18-19 June, 2018
- [4]. Subhojit Dawn, **Prashant Kumar Tiwari**, Sadhan Gope, Arup Kumar Goswami and Prakash Kumar, "An Active Power Spot Price based Approach for Congestion Management by Optimal Allocation of TCSC in Competitive Power Market", published in **IEEE TENCON-2016, Singapore. DOI: 10.1109/TENCON.2016.7848261, Electronic ISSN: 2159-3450, Electronic ISBN: 978-1-5090-2597-8.**
- [5]. Sadhan Gope, Subhojit Dawn, Arup Kumar Goswami and **Prashant Kumar Tiwari**, "Profit Maximization with Integration of Wind Farm in Contingency Constraint Deregulated Power Market

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using Moth Flame Optimization Algorithm", published in **IEEE TENCON-2016, Singapore**. DOI: 10.1109/TENCON.2016.7848257, **Electronic ISSN: 2159-3450, Electronic ISBN: 978-1-5090-2597-8.**

- [6]. Sadhan Gope, Subhojit Dawn, Arup Kumar Goswami and **Prashant Kumar Tiwari**, "Moth Flame Optimization based Optimal Bidding Strategy under Transmission Congestion in Deregulated Power Market", published in **IEEE TENCON-2016, Singapore**. DOI: 10.1109/TENCON.2016.7848076, **Electronic ISSN: 2159-3450, Electronic ISBN: 978-1-5090-2597-8.**
- [7]. **Prashant Kumar Tiwari**, Yog Raj Sood, "Optimal Location of FACTS Devices for Enhancement in the Performance of Deregulated Power Sector: A Survey", published in **IEEE Power & Energy Society (PES) General Meeting-2011, Detroit, Michigan, USA**, DOI: 978-1-4577-1002-5/11, pp. 1-7, July 24-28, 2011. **ISSN: 1944-9925, E-ISBN: 978-1-4577-1001-8, Print ISBN: 978-1-4577-1000-1.**
- [8]. **Prashant Kumar Tiwari**, Yog Raj Sood, "An Approach for Optimal Placement Rating and Investment Cost Recovery of a TCSC in Double Auction Power Market", published in Proceedings of the 2014 **International Conference** on Power Systems, Energy, Environment, **Switzerland**. (ISBN: 978-1-61804-221-7), March 2014.

**International Conferences within India (18 NOs)**

- [1]. Rajesh Panda, **Prashant Kumar Tiwari**, "Bidding Strategy for GENCOs and DISCOs in a Risk-based Day-Ahead Market", accepted for publication in 1<sup>st</sup> IEEE International Conference on Sustainable Energy Technologies and System to be held in February 2019 at KIIT, Bhubaneswar, Odisha
- [2]. Arindam Sanyal, Rajesh Panda, **Prashant Kumar Tiwari**, "Frequency Regulation in Deregulated Power Markets: A Review", accepted for publication in **International Conference** on Computational Intelligence and Internet of Things (ICCIoT 2018)" scheduled to be held at NIT Agartala, India during 14-15 December 2018.
- [3]. Rajesh Panda, **Prashant Kumar Tiwari**, Subhojit Dawn, "A wind integrated bidding model in day-ahead and real-time market considering regulating price in a deregulated power market ", **SCOPUS Indexed International Conference** on New Technological Opportunities in Networking and Sciences (NEWTONS-18), 8-10 June 2018, SIT Pithoragarh, India
- [4]. Subhojit Dawn, Sadhan Gope, , Arup Kr. Goswami, "Optimal Demand Side Bidding Using Evolutionary Algorithm in Deregulated Environment", Springer—5th International Conference on Soft Computing for Problem Solving, IIT Roorkee, December-2015. **(Online available)---Springer.**
- [5]. Subhojit Dawn, **P.K. Tiwari**, "Maximization of Social Welfare by Optimal Allocation of UPFC with Wind Power Generation in Deregulated Electricity Market", published in **2014 IEEE International Conference** on Advanced Communication Control & Computing Technologies (ICACCCT), Ramanathapuram, Tamilnadu, India, pp. 314-318, 2014, **ISBN: 978-1-4799-3914-5/14**

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- [6]. Subhojit Dawn, **P.K. Tiwari**, “Improvement of Social Welfare and Profit by Optimal Allocation of TCSC with Wind Power Generator in Double Auction Competitive Power Market”, **published in 2014 Fourth IEEE International Conference** on Advances in Computing and Communications, Cochin, India, pp. 362-365, August 2014, **ISBN: 978-1-4799-4363-0/14, DOI: 10.1109/ICACC.2014.95.**
- [7]. S Gope, AK Goswami, **PK Tiwari**, S Deb, “Generator rescheduling for congestion management using Firefly Algorithm”, **IEEE International Conference on Energy Systems and Applications**, Pune, India, pp. 40-44, October 2015, **ISBN: 978-1-4673-6817-9/15**
- [8]. **Prashant Kumar Tiwari**, Yog Raj Sood, “Optimal Location of FACTS Devices in Power System using Genetic Algorithm”, **published in IEEE World Congress on Nature & Biologically Inspired Computing (NaBIC 2009)**, pp.1034-1040, December 2009. (Available online at **IEEE Xplore Digital Library**). **Print ISBN: 978-1-4244-5053-4.**
- [9]. N.K. Sharma, **P.K. Tiwari**, Y.R. Sood, “Promotion of Renewable Energy in Indian Power Sector Moving Towards Deregulation”, **published in 2012 International IEEE Student’s Conference on Electrical Electronics and Computer Sciences (SCEECS-2012)**, organized by Department of Electrical Engineering, MANIT Bhopal (M.P.), (Available online at **IEEE Xplore Digital Library**). **Print ISBN: 978-1-4673-1516-6.**
- [10]. N.K. Sharma, **P.K. Tiwari**, Y.R. Sood, “Current status, policies and future perspectives of Indian Power Sector Moving Towards Deregulation”, **published in 2012 International IEEE Student’s Conference on Electrical Electronics and Computer Sciences (SCEECS-2012)**, organized by Department of Electrical Engineering, MANIT Bhopal (M.P.), (Available online at **IEEE Xplore Digital Library**). **Print ISBN: 978-1-4673-1516-6.**
- [11]. Naveen Kumar Sharma, **Prashant Kumar Tiwari**, Yog Raj Sood, “Environmental friendly solar energy in restructured Indian Power Sector”, **published in 2<sup>nd</sup> IET International Conference on Sustainable Energy and Intelligent System (SEISCON 2011)**, Chennai, pp.104-109, July 20-22, 2011. **ISBN: 978-9-38043-000-3.** (Available online at **IEEE Xplore Digital Library**).
- [12]. Prateek Singhal, **Prashant Kumar Tiwari**, Yog Raj Sood, “Deregulation & Restructuring of Russian Electricity Market”, **published in IEEE International Conference on Advance in Computing & Communication (ICACC-2011)**, organized by Computer Centre & Department of Computer Science & Engg., N.I.T Hamirpur (HP)-India, pp. 365-371, April 8-10, 2011. **ISBN: 978-81-920874-0-5.**
- [13]. Naveen Kumar Sharma, **Prashant Kumar Tiwari**, Yog Raj Sood, “Artificial Intelligence Techniques Application to Dissolved Gas Analysis of Power Transformer”, **published in IEEE International Conference on Advance in Computing & Communication (ICACC-2011)**, organized by Computer Centre & Department of Computer Science & Engg., N.I.T Hamirpur (HP), pp. 449-455, April 8-10, 2011, **ISBN: 978-81-920874-0-5.**
- [14]. Naveen Kumar Sharma, **Prashant Kumar Tiwari**, Yog Raj Sood, “Restructuring and Deregulation of Indian Power Sector: current status, policies and future perspectives”, **published in International**

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*Conference on Deregulated Environment and Energy Markets (DEEM)*, organized by Chitkara University, Rajpura (Punjab), July 22-23, 2011, ISBN: 978-81-920913-7-2.

- [15]. **Prashant Kumar Tiwari**, Naveen Kumar Sharma, Yog Raj Sood, “Genetic Algorithm Based Approach for Optimal Location of FACTS Devices in Power System”, **published** in *International Conference on Electrical Power and Energy Systems (ICEPES-2010)*, MANIT Bhopal (M.P.), vol. 2, pp. 97-104, August 26-28, 2010.
- [16]. Naveen Kumar Sharma, **Prashant Kumar Tiwari**, Yog Raj Sood, “Condition Monitoring and Diagnosis of Power Transformers using Different Techniques: A Technical Review”, **published** in *International Conference on Electrical Power and Energy Systems (ICEPES-2010)*, MANIT Bhopal (M.P.), vol. 1, pp. 590-596, August 26-28, 2010.
- [17]. N.K. Sharma, **P.K. Tiwari**, Y.R. Sood, “Renewable Energy Status in Indian Restructured Power Sector: Future Aspects”, **published** in *International Conference on Renewable Energy*, organized by Eternal University, Baru Shib, Sirmour (H.P.), May 5-6, 2012.
- [18]. Naveen Kumar Sharma, **Prashant Kumar Tiwari**, Yog Raj Sood, “Renewable Energy: Indian Competitive Electricity Marketplace and Future Aspects”, **published** in *IEEE International conference on Power Electronics (IICPE 2012)*, Delhi Technical University (DTU), Delhi, December 6-8, 2012, pp.1-6.

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**Details of National Conference Publications (09 NOs)**

- [1]. Rajesh Panda, **Prashant Kumar Tiwari**, "Risk-Based Double Auction Mechanism in Real Time Power Market ", *National Seminar* on Renewable Energy Technology: Issues and Prospects (RETIP-2017), Sep. 2017. (*Proceedings published by AIP*)
- [2]. **Prashant Kumar Tiwari**, Yog Raj Sood, “A New Method for Minimization of Transmission Losses using Optimization”, **published** in *National Conference on Recent Trends of Electrical & Electronics Engineering (RTEEE-2010)-Kaithal (Haryana)*, May 14-15, 2010.
- [3]. Naveen Kumar Sharma, **Prashant Kumar Tiwari**, Yog Raj Sood, “Renewable Energy Status in India”, **published** in *National Conference on Recent Trends of Electrical & Electronics Engineering (RTEEE-2010)-Kaithal (Haryana)*, May 14-15, 2010.
- [4]. Dr. Yog Raj Sood, Dr. R. K. Jarial, **Prashant Kumar Tiwari**, “Mathematical Modeling of TCSC, STATCOM and UPFC based upon Newton Raphson’s Power Flow”, **published** in *National Conference on Recents Advances in Electrical Engineering (RAEE-2008)*, N.I.T. Hamirpur(H.P.), December 26-27, 2008.
- [5]. **Prashant Kumar Tiwari**, “FACTS Technology, an Effective Tool of Energy Management: An Indian Scenario”, **published** in *National Conference on Trends in Renewable Energy Sources*,

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*Application and Climate Change (TRESAC-2010)*, organized by Centre for Nanoscience & Nanotechnology, Sathyabama University, Chennai, India, July 23-25, 2010.

- [6]. Digambar Singh, Naveen Kr. Sharma, **Prashant Kr. Tiwari**, Yog Raj Sood, “Role of Solar Energy in Indian Electricity Market: Future Perspectives”, **published** in *National Conference on Sustainable Development Energy Sector*, organized by University of Petroleum & Energy Studies, Dehradun, April 8-9, 2011.
- [7]. Digambar Singh, Naveen Kr. Sharma, **Prashant Kr. Tiwari**, Yog Raj Sood, “An Analysis of Renewable Energy Supply and Assessment Criteria for Grid Connected Large Buildings”, **published** in *National Conference on Advances & Research in Electrical System Technologies (AREST-11)*, ARYA Institute of Engineering & Technology, Jaipur, April 23-24, 2011.
- [8]. Digambar Singh, Naveen Kr. Sharma, **Prashant Kr. Tiwari**, Yog Raj Sood, “The Development & Generation of Electricity from Natural Source of Light”, **published** in *National Conference on Latest, Advancement in Science, Engineering Research 2011 (LASER’11)*, May 26-27, 2011, Baba Farid College of Engineering & Technology, Bathinda, Punjab.
- [9]. **P.K. Tiwari**, Y.R. Sood, R.K.Jarial, R.A Gupta, “Optimal Location of FACTS Devices in Deregulated Power Sector: A Survey”, All India (*National*) Seminar on Power Electronics Application to Power Systems (PEAPS-2011), November 19-20, 2011 at Swami Keshvanand Institute of Technology, Management and Gramothan, Jaipur (Rajasthan).

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**Short Term Courses/Workshops/FDPs /Seminars Attended (18 NOs)**

- [1]. Attended **Short Term Course** (Sponsored by Ministry of New and Renewable Energy (MNRE), Government of India) on “*National Workshop on Energy Efficient Green Building Concepts*”, 9<sup>th</sup> November 2010, organized by Centre for Excellence in Energy and Environment (CEEE) N.I.T. Hamirpur (HP).
- [2]. Attended **Short Term Course** (Sponsored by **MHRD & AICTE**) on “*Application based Global Trends in Renewable Energy Sources*” from September 20<sup>th</sup> – 24<sup>th</sup>, 2010, organized by Department of Mechanical Engineering and Centre for Excellence in Energy and Environment N.I.T. Hamirpur (HP).
- [3]. Attended **Short Term Course** (Sponsored by **MHRD & AICTE**) on “*Science & Technology of GEM Manufacturing (GEMS-2010)*” from July 23<sup>rd</sup> – 24<sup>th</sup>, 2010, organized by N.I.T. Hamirpur (HP).
- [4]. Attended four days **workshop** on “*Innovation in Technology*” from 5<sup>th</sup> – 8<sup>th</sup> August 2008, organized by Continuing Education Centre N.I.T. Hamirpur (HP).

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- [5]. Attended **Workshop** on “*Usages of E-Resources*” 9<sup>th</sup> August 2008, organized by Central Library N.I.T. Hamirpur (HP).
- [6]. Attended **National Symposium** on “*Nanomaterials Design Bridging Nanolength Scale (NSNMD-2007)*” 17<sup>th</sup> November 2007, organized by Advanced Material Science Research Centre N.I.T. Hamirpur (HP).
- [7]. Attended **Workshop** on “*MATLAB for Engineering Applications (MAT-12)*”, 22<sup>nd</sup> March, 2012, organized by SMDP-II & Centre for Continuing Education, National Institute of Technology Hamirpur (HP).
- [8]. Attended two days **Workshop** on “Microcontroller and PLC Programming & Applications”, 13-14 April 2013, (under TEQIP-II), jointly organized by E&I Department N.I.T. Silchar and Micro-Pro Kolkata.
- [9]. Attended one day **Seminar** on “Interdisciplinary Research on Biomedical Engineering”, 26<sup>th</sup> August 2013, (under TEQIP-II), organized by IEEE-EDS student branch chapter, N.I.T. Silchar.
- [10]. Attended two days **Workshop** on “MEMS & SENSORS”, 11-12 September 2013, (under TEQIP-II), organized by IEEE-EDS student branch chapter, N.I.T. Silchar.
- [11]. Attended one week **Short Term Course** on “Renewables in Science & Engineering”, 10-14 January 2014, jointly organized by NIT Silchar & Solar Energy Society of India.
- [12]. Attended two days **National Workshop** on “Innovating India”, (under TEQIP-II), jointly organized by NIT Silchar, CSIR-NISTADS-New Delhi & IIM Kashipur.
- [13]. Attended one week **National Faculty Development Program (FDP)** on “Pedagogy: A Framework for Effective Teaching and Learning Strategies”, 7-11 May 2014, organized by TEQIP-II, N.I.T. Silchar.
- [14]. Attended two days **Workshop** on “Development of assessment tools for effective implementation of outcome based curriculum”, 22-23 November 2014, organized by N.I.T. Silchar.
- [15]. Attended one day **Workshop** on “IEEE Authorship Workshop-2015”, on 15<sup>th</sup> February 2015, organized by IEEE Student Branch, Electrical Engg. Deptt., N.I.T. Silchar.
- [16]. Attended two days **National workshop** on “Train the Trainer” on Massive Open Online Courses (MOOCs), 26-27 August 2017, organized by TEQIP-III, N.I.T. Silchar in collaboration with Royal Academy of Engineering (UK) and Thapar University (Patiala).
- [17]. Attended **3<sup>rd</sup> Educational meet** on Factory Automation, “Bridging the Gap between Industry and Academia”, on 23<sup>rd</sup> March-2018 jointly organized by NIT Silchar and Mitsubishi Electric India.Ltd.
- [18]. Attended a five days **Faculty Development Program** on “Curriculum Design and Implementation for Outcome-Based Education”, 27<sup>th</sup> – 31<sup>st</sup> May 2019, organized under TEQIP-III, N.I.T. Silchar.

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**Conferences/Workshops/Seminars/Short-Term Courses etc. Organized**

Sr. No.	Title of Activity	Duration	Sponsored by	Organizing Department/Institute	Role
1.	One week <b>Short Term Course</b> on Challenges in Operation and Control of Distributed Energy Resources	26 <sup>th</sup> – 30 <sup>th</sup> July, 2019	TEQIP-III, NIT Silchar	Electrical Engg. Department, NIT Silchar	Coordinator
2.	One week <b>workshop</b> on Recent Challenges in Integration and Energy Management of Wind and Solar PV Generation under the Paradigm of Smart Grid	17 <sup>th</sup> – 21 <sup>st</sup> November, 2018	TEQIP-III, NIT Silchar	Electrical Engg. Department, NIT Silchar	Coordinator
3.	<b>National Seminar</b> on “Recent Challenges and Future Issues of Power System Operation in Indian Context”	5-6 April, 2014	TEQIP-II, N.I.T. Silchar	Electrical Engineering Department, N.I.T. Silchar	Co-coordinator
4.	<b>National Research Conclave</b> on “Recent Innovations in Science and Engineering (RISE-2017)”	24-26 March, 2017	TEQIP-II, N.I.T. Silchar	N.I.T. Silchar	Member of Core Organizing Committee

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**Ph.D. Guidance**

Sl. No.	Name of Scholar with Reg. No.	Title of Thesis	Status	Other Supervisor/ Co-supervisor (if any)
1.	Mr. Subhojit Dawn (14-3-03-112)	Study and Analysis the Impacts of Uncertain Renewable Power Penetration in Competitive Power Market	<b>Awarded</b>	Dr.A.K. Goswami
2.	Mr. Sadhan Gope (14-3-03-106)	Transmission Congestion Management Considering Wind Farm and Energy Storage System in Competitive Electricity Market	<b>Awarded</b>	Dr.A.K. Goswami
3.	Ms. Rituparna Mitra (14-3-03-111)	Voltage Sag Assessment in Power Distribution System	<b>Thesis Submitted</b>	Dr.A.K. Goswami
4.	Mr. Rajesh Panda (16-3-3-102)	Optimal Bidding Strategies in Competitive Power Markets	<b>Thesis Submitted</b>	NIL
5.	Mr. Arindam Sanyal	Yet to be decided	Ongoing	Dr.A.K. Goswami
6.	Ms. Sarita Pal	Yet to be decided	Ongoing	Dr.A.K. Goswami
7.	Mr. Farquan Nadeem	Yet to be decided	Ongoing	Dr.A.K. Goswami
8.	Mr. Nirban Chakraborty	Yet to be decided	Ongoing	Dr. N.B. Dev Choudhury

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**M. Tech. Thesis Guidance**

Sl. No.	Name of Scholar	Month & Year of Completion	Title of Thesis	Status	Role
1.	Subhojit Dawn	May-2014	Optimal Allocation of TCSC and UPFC with Wind Power Generator in Double Auction Competitive Power Market	Completed	Supervisor
2.	Prakash Kumar	May-2014	Optimal Location, Sizing of TCSC & UPFC for Congestion Management in Competitive Power Market	Completed	Supervisor
3.	Arun A.	May-2015	Optimal Operating Strategy of Wind-Pumped Storage Hybrid Plant Considering System Frequency and Energy Level of PSH Plant in Competitive Power Market Environment	Completed	Supervisor
4.	Manas Kumar Mishra	May-2016	An Efficient Approach for Congestion Management by Series FACTS Devices in Wind Integrated Restructured Power Market	Completed	Supervisor
5.	Ankit Kumar Singh	May-2017	An Optimal Bidding Strategy for Micro-grid in Day Ahead Deregulated Power Markets with Intermittent Renewables	Completed	Supervisor
6.	G. Srinivasulu	May-2017	Feasibility Assessment of Bilateral & Multilateral Transactions with Optimal Location of Solar Power Plant in Competitive Power Market	Completed	Supervisor
7.	Ampolu Maneesha	May-2018	Optimal Bidding Strategy While Providing Ancillary Services with Wind-PSP Hybrid Generation System in Competitive Power Markets	Completed	Supervisor
8.	Adarsh Nagariya	May-2018	A Strategic Bidding Model for Power Market Considering Economic & Physical Congestions	Completed	Supervisor
9.	Dhruvagupt	May-2019	--	Completed	Supervisor
10.	Rage Ravitheja	May-2019	Optimal bidding strategy for wind-PSH based hybrid competitive power market	Completed	Supervisor
11.	Divya Rashmi	May-2019	--	Completed	Co-supervisor

**B. Tech. Project Guidance:** Total 11 Nos. of B. Tech. projects guided

**Invited Lecture/Talk Delivered**

Sl. No.	Title of Lecture	Short Term Course/ Conference/ Sponsoring Authority	Date	Organization
1	FACTS Devices for Power Quality Enhancement	AICTE/MHRD Sponsored Short Term Training Program (STTP) on Power Quality Problems & Mitigations (PQM-2010)	06 June, 2010	Department of Electrical Engineering, N.I.T. Hamirpur (H.P.), India

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**Courses Taught**

<b>Theory Subjects Taught (in last 6 Years)</b>				
Sl. No.	Level (UG/PG/Ph.D.)	Course Name	Semester	No. of Times Taught
1.	UG	Basic Electrical Engineering (EE 101)	2 <sup>nd</sup> Sem	One
2.	UG	Electrical Measurement & Measuring Instruments (EE 1204)	3 <sup>rd</sup> Sem	Four
3.	UG	Flexible Alternating Current Transmission Systems (EE 423)	7 <sup>th</sup> Sem	Two
4.	UG	Computer Aided Design of Electrical Systems (EE405)	8 <sup>th</sup> Sem	Two
5.	UG	Hydro-Electric Engineering (EE 451)	8 <sup>th</sup> Sem	One
6.	PG/Ph.D.	Power Quality (EE 506)	1 <sup>st</sup> Sem	One
7.	UG	Power System-I (EE-1205)	4 <sup>th</sup> Sem	Four
8.	UG	Power System-II (EE-1303)	5 <sup>th</sup> Sem	Three
9.	UG	High Voltage AC/DC (EE-1421)	7 <sup>th</sup> Sem	Two
10.	PG/Ph.D	Restructured Electricity Market (EE-529)	2 <sup>nd</sup> Sem	Three
<b>Laboratory Courses Handled</b>				
1.	UG	Basic Electrical Engineering Laboratory	2 <sup>nd</sup> Sem	Five
2.	UG	Electrical Measurement & Measuring Instruments Laboratory	3 <sup>rd</sup> Sem	Four
3.	UG	Power System Laboratory	5 <sup>th</sup> Sem	One

**Foreign Visit(s):**

- Visited Bangkok, Thailand in March 2019 to attend & present the papers in IEEE PES GTD Grand International Conference and Exposition Asia 2019.
- Visited Singapore in November 2016 to attend & present the papers in IEEE TENCON-2016 International Conference of R-10 Asia Pacific.

**Assignments from Outside India:**

- Evaluated a P.G. Thesis from University of Tromso, Norway in 2016.
- Evaluated a P.G. Thesis from University of Tromso, Norway in 2017.

**Other Relevant Outreach Activities**

- General Co-Chair of International Conference on New Technological Opportunities in Networking and Sciences (NEWTONS-2018), 8-10 June 2018, organized by Department of Electrical Engineering, SIT Pithoragarh, Uttarakhand, India.
- Member of Editorial advisory board of a handbook of Research on Power and Energy System Optimization, to be published by IGI Global USA.

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- Member of Technical program committee of 2<sup>nd</sup> international conference on “Communication Control and Intelligent Systems (CCIS-2016)”, 18-20 November 2016, organized by Deptt. of ECE, GLA University Mathura.
- Member of National advisory board of international conference on “2<sup>nd</sup> International Conference on Intelligent Circuits and Systems (ICICS 2018)”, 20-21 April 2018, to be organized by School of Electronics and Electrical Engineering, Lovely Professional University (LPU), Punjab.
- Member of Technical program committee of international conference on “05<sup>th</sup> International Conference on Computing For Sustainable Global Development (12<sup>th</sup> INDIACom; 2018)”, 14-16 March 2018, at Bharati Vidyapeeth, New Delhi. (IEEE Conference ID: 42385).

**Administrative Experience at Departmental /Institute Level**

1. Worked as Faculty Adviser (Library), Central Library, NIT Silchar.
2. Worked as In-charge, Hindi Cell, NIT Silchar.
3. Worked as In-charge, Central Time-Table, NIT Silchar.
4. Worked as Coordinator, GATE Training, TEQIP-III, NIT Silchar.
5. Worked as Nodal Officer, IRINS, NIT Silchar.
6. Worked as Departmental Coordinator, TEQIP-III, NIT Silchar.
7. Worked as In-charge, EMMI Laboratory, Electrical Engg. Department, NIT Silchar.
8. Worked as member & secretary of Department Undergraduate Program Committee (DUPC) of EED, NIT Silchar w.e.f. October 2013 to May-2017.
9. Worked as member of Department Undergraduate Program Committee (DUPC) of EED, NIT Silchar w.e.f. May-2017 to August 2019.
10. Worked (two times) as coordinator of a central committee formed by Director, NIT Silchar to look after the branch changing issues of UG students.
11. Worked as Chairman and member of doctoral committee of various Ph.D. students of Electrical Engg. Department, NIT Silchar.
12. Worked as member of the doctoral committee (as Nominee of Chairman Senate) of various Ph.D. students from other Departments of NIT Silchar.
13. Worked as member secretary of Departmental Official Language Implementation Committee (DOLIC), N.I.T. Silchar and TOLIC Silchar.
14. Member of Technical Advisory Committee for e-connectivity of all north-east NITs with NIT Silchar (Ho’ble President of India asked NIT Silchar to act as a resource centre for the NITs in the North-East)
15. Worked as secretary of IEEE Power & Energy Society Student’s Branch Chapter at EED, NIT Silchar.
16. Worked as Faculty Advisor many times for B. Tech. (EE) students.

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17. Worked as a member of core committee/ scrutiny committee/polling committee/counting committee formed to conduct Gymkhana elections for Student's union body, NIT Silchar.
18. Many other duties assigned by NIT Silchar authority time to time.

**(Dr. Prashant Kumar Tiwari)**

Assistant Professor Grade-I,

Electrical Engineering Department,

Motilal Nehru National Institute of Technology Allahabad, Prayagraj-211004, U.P.