

Curriculum Vitae

Name: Dr. Bipul Kumar Talukdar

Designation: Assistant Professor

Address for Communication (office): Department of Electrical Engineering
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Educational Qualifications:

Sl. No.	Examination Passed	Year of passing	Board / Council /University	Specialization
1	HSLC/10 th Std.	2004	Board of Secondary Education, Assam (SEBA)	N/A
2	HSSLC/10+2 Std.	2006	Assam Higher Secondary Education Council (AHSEC)	Science
3	Degree (B.E)	2011	Assam Engineering College (Gauhati University)	Electrical Engineering
4	Master's Degree (M.E)	2014	Assam Engineering College (Gauhati University)	Electrical Engineering (Power System)
5	Ph. D. (Electrical Engineering)	2022	Gauhati University	Power System Reliability Analysis with Special Emphasis on Renewable Distributed Generation and Electric Vehicle

Languages known: English, Assamese, Hindi

Academic/ Administrative Experience: Working as Assistant Professor in the Department of Electrical Engineering since February, 2014. Also, contributing as Coordinator of Training & Placement Cell, NBA Coordinator, Member of Institution's Innovation Council (IIC), Coordinator of IPR (KAPILA) Cell, and Coordinator of Literature Club in the Institute.

Research Area: Power System Operation & Control, Power System Reliability, Renewable Energy Application, Distributed Generation, Electric and Hybrid Vehicles.

Membership of Professional Bodies:

1. IEEE member
2. Indian Society for Technical Education (ISTE)
3. International Society for Research and Development (ISRD)
4. International Association of Engineers (IAENG)

Undergraduate Project Guided: 20

Programming/Software Skills: C/C+, MATLAB and SIMULINK, SCILAB, PLC, Labview, LaTeX, Python, PSCAD

List of Publications:

A. JOURNAL:

1. Talukdar, B.K.; Deka, B.C., Goswami, A.K., “*Reliability Analysis of an Active Distribution Network integrated with Solar, Wind and Tidal Energy Sources*”, International transactions on electrical energy systems, (2021), DOI: 10.1002/2050-7038.13201, (SCIE, SCOPUS Indexed)
2. Talukdar, B.K.; Deka, B.C., Goswami, A.K., “*An Approach to Reliability Modeling and Availability Analysis of a Solar Electric Vehicle with Stand-by Plug-in Facility*”, International transactions on electrical energy systems, (2021) DOI: 10.1002/2050-7038.13147, (SCIE, SCOPUS Indexed)
3. Talukdar, B.K.; Deka, B.C. “*An Approach to Reliability, Availability and Maintainability Analysis of a Plug-In Electric Vehicle*”. World Electric Vehicle Journal, 2021, 12, 34. DOI: 10.3390/wevj12010034 (SCOPUS indexed)
4. Talukdar, B.K.; Deka, B.C. “*An Approach to Solve Unit Commitment Problems considering Reliability as a Constraint*,” International Journal of Computer Sciences and Engineering, Vol.04, Issue.07, pp.30-33, 2016. (UGC Approved)
5. Barman, U., Choudhury, R. D. ., Talukdar, B. K. ., Bhokta, G. ., Choudhari, S. A. ., & Saikia, A. . (2021). *Smartphone assist deep neural network model to recognize the high-quality tea using leaf maturity and its effect on leaf chlorophyll*. Journal of Applied and Natural Science, 13(4), 1249–1255 (SCOPUS indexed)

B. BOOK CHAPTER:

1. Talukdar, B.K.; Deka, B.C., Goswami, A.K., Saha, D, “*Reconfiguration of Radial Distribution Network Implementing TLBO Algorithm for Loss Minimization and Reliability Improvement*”, Book Chapter in ‘Intelligent Techniques and Applications in Science and Technology’, Springer International Publishing, (2020), DOI: 10.1007/978-3-030-42363-6_19.
2. D. Saha, K. J. Baruah, M. J. Borah, P. Saikia, S. K.Tamuly, B.K. Talukdar, “*Impact of Modified Static Series Synchronous Compensator in Enhancing the AGC Performance of Multiple Unit Power System*”, Intelligent Techniques and Applications in Science and Technology’, Springer International Publishing, (2020), DOI: 10.1007/978-3-030-42363-6_19

C. CONFERENCE:

1. B.K. Talukdar, B. C. Deka, “*An Approach to System Health Analysis for Generation Expansion Planning*”, National Conference on Emerging Global Trends in Engineering and Technology-March 7-8, 2014, OP1002.
2. B.K. Talukdar, B. C. Deka, “*An Approach to System Health Analysis for Generating Unit Maintenance Scheduling*”, National seminar on Recent Challenges and future Issues of power system operation in Indian context, April 5-6, 2014, NIT Silchar.

3. B.K. Talukdar, B. C. Deka “*An approach to solve unit commitment problems considering reliability as a constraint*” National Conference on recent innovative trends in Engineering & Technology, NCRITET-16, on 11th and 12th November, 2016, organized by Department of Computer science and Engineering, GMT, Guwahati, Assam, India in association with International Journal of Computer Science and Engineering, IJCSE.
4. B.K. Talukdar, B. C. Deka, “*Adequacy Assessment of a System utilizing Solar and Wind Energy Sources*”, National Exhibition & Conference on New and Renewable Energy (NECONRE-2017) organized by Assam Don Bosco University (ADBU) in association with Assam Energy Development Agency (AEDA), at its Azara Campus on 6-7 October 2017.
5. B.K. Talukdar, B. C. Deka, “*Effects of Wind Power on Bulk System Reliability Evaluation Using Well-Being Framework*”, National Conference on Non-Conventional Energy: Harvesting Technology and Its Challenges (NCEHTC-2017), organized by the Department of Chemical Engineering & Mechanical Engineering, Assam Engineering College, Assam, India On 17-18 November, 2017
6. B.K. Talukdar, B. C. Deka, *Reliability evaluation of a small Isolated power System utilizing renewable energy*, National Conference on Recent Advances in Science & Technology (NCRASST-2018) on 15th – 17th March, 2018, organized by Assam Science and Technology University, Under TEQIP-III, MHRD, New Delhi.
7. B.K. Talukdar, B.C. Deka, “*Modelling of a photovoltaic system and Reliability Assessment*”, International Conference on Renewable and Alternate Energy (ICRAE-2018) during 4th-6th December, 2018, organized by Assam Science and Technology University, under TEQIP-III scheme.
8. Bipul Kumar Talukdar, Bimal Chandra Deka, Arup Kumar Goswami, “*Distribution System Reliability Assessment Incorporating Distributed Generation*”, National Conference on *Recent Advances in Science and Technology*, (NCRASST-2019) organized by Assam Science and Technology University, under TEQIP-III, MHRD, New Delhi on May 15-17, 2019.
9. Saha, Debdeep & Saikia, Lalit & Kumar Talukdar, Bipul. (2019). “*Classical controller based AGC of a hybrid multisource power system incorporating distributed generation*”, Current Trends in Renewable and Alternate Energy, AIP Conference Proceedings. 2091. 020002. 10.1063/1.5096493.
10. B. K. Talukdar, B.C. Deka, “*An Approach to Adequacy Assessment of Renewable Microgrid*”, National Conference on *Emerging Trends in Energy and Electrical Systems (ETEES-2019)*, organized by the Department of Electrical Engineering, Assam engineering College, on 29th-30th March, 2019
11. D Saha, LC Saikia, BK Talukdar, “*Classical controller based AGC of a hybrid multisource power system incorporating distributed generation*”, AIP Conference Proceedings 2091 (1), 020002
12. Talukdar, B.K.; Deka, B.C., Goswami, A.K., Saha, D, “*Reconfiguration of Radial Distribution Network Implementing TLBO Algorithm for Loss Minimization and Reliability Improvement*”, Book Chapter in ‘*Intelligent Techniques and Applications in Science and Technology*’, Springer International Publishing, (2020), DOI: 10.1007/978-3-030-42363-6_19.
13. D. Saha, K. J. Baruah, M. J. Borah, P. Saikia, S. K. Tamuly, B.K. Talukdar, “*Impact of Modified Static Series Synchronous Compensator in Enhancing the AGC Performance of Multiple Unit Power System*”, *Intelligent Techniques and Applications in Science and Technology*, Springer International Publishing, (2020), DOI: 10.1007/978-3-030-42363-6_19
14. Talukdar, B.K.; Deka, B.C., Goswami, A.K., “*Reliability Centered Capacity reserve Management in Deregulated Power Market*”, 2022 IEEE International Conference on Power Electronics, Smart Grid, and Renewable Energy (IEEE-PESGRE-22), January 2-5, 2022
15. Talukdar, B.K.; Deka, B.C., Goswami, A.K., “*Reliability Analysis of Electric Vehicle integrated Distribution Network*”, 2nd IEEE IAS International Conference on Computational Performance Evaluation (ComPE-2021), December 1-3, 2021.

Value added/ STTP/FDP completed:

1. *Recent Advances in Transmission Insulator: NPTEL-AICTE Certificate Course under SWAYAM (score: 96%, credit-1)*
2. *Advances in UHV Transmission and Distribution” NPTEL-AICTE Certificate Course under SWAYAM (score: 66%, credit-1) during July-September 2022*
3. *A Course on Electric Vehicle Design at Pantech E-Learning pvt. Ltd. during 20 June-19 July, 2022*
4. *Inculcating Universal Human Values in Technical Education, organized by All India Council for Technical Education (AICTE), from 21 June to 25 June, 2021*
5. *Design and Implementation of Technical Curricula in Recent Perspective, organized by National Institute of Technical Teachers’ Training & Research, NITTTR, Kolkata, on 15-19 November, 2016.*
6. *Estimating and Costing of Non-Conventional Energies, organized by National Institute of Technical Teachers’ Training & Research, NITTTR, Kolkata, on 13-17th November, 2017*
7. *Engineering Application using MATLAB Programming, organized by National Institute of Technical Teachers’ Training & Research, NITTTR, Chennai, on 21-25 December, 2022.*
8. *Integration of Smart Grid & Renewable Energy Sources, a MHRD, TEQIP-III Sponsored FDP organised by Department of Electrical Engineering, Assam Engineering College, 26-30 November,2018*
9. *Recent Development in Teaching and Research, an AICTE sponsored STTP organized by the Department of MBA, GIMT, Guwahati on 15-20 March, 2021.*
10. *Writing Effective Collaborative Research Proposals, a MHRD, TEQIP-III Sponsored FDP organised by Assam Science & Technology University on January 27,2020.*
11. *Engaging Today’s Learner , a MHRD, TEQIP-III Sponsored FDP organized by Assam Science and Technology University (ASTU) in association with Department of AEI, GIMT, Guwahati, under TEQIP-III scheme of MHRD, New Delhi, during 9-14 December, 2019.*
12. *Recent Trends In Energy Sector with Special Emphasis On North-East”, AICTE-ISTE approved Induction/Refresher Program organized by Gyan Sagar Foundation Group of Institutions, Assam during 18th-23rd June, 2018.*
13. *Recent Trends in Power Engineering and Management, an AICTE- NEQIP sponsored STTP organized in Assam Engineering College on 19-23 January, 2015.*
14. *Application of LabView in Technical Education and Research, a MHRD-TEQIP-III sponsored STTP conducted by ASTU at GIMT during 28th January to 1st February, 2019*
15. *Power Electronics and Drive Systems, a MHRD-TEQIP-III sponsored STTP conducted by ASTU at GIMT during 26-30 August, 2019.*



Date: January 02, 2023

(Dr. Bipul Kumar Talukdar)