



GIRIJANANDA CHOWDHURY UNIVERSITY, ASSAM

Department of Electrical Engineering

List of Publications

Sl No	Name of the Faculty	List of Publications
1	Dr. Sandip Bordoloi	<p>Bordoloi, S, Roy, R.R., "Development of a Multiple Sensor Based Instrumentation System for Degradation Measurement of Lubricating Oil" 2021 2nd International Conference for Emerging Technology (INCET); Belgaum, India. May 21-23, 2021; DOI: 10.1109/INCET51464.2021.9456320</p> <p>Bordoloi, S "Simulation and Analysis of Green House Based Agri-Voltaic System Using Energy 3D Software" AJET, ISSN:2348-7305, Volume10, Issue3, August, 2021 Link: https://journals.dbuniversity.ac.in/ojs/index.php/AJET/article/view/2542/pdf</p> <p>Bordoloi, S., "Mathematical Analysis of Dispersion with optical power of a Bare, Bent and Tapered Multimode Optical fibre sensor using 3 term Sellmeier equation" 2020 International Conference on Computational Performance Evaluation (ComPE); DOI-10.1109/ComPE49325.2020.9199991</p> <p>Bordoloi S, "Mathematical and Experimental analysis of degradation of lubricating oil in four stroke Motorbikes" Journal of Automation and Automobile Engineering, 2018</p> <p>Bordoloi S, Laskar S., "A Study on Effect of Temperature on Lubricating Oil Using Bare and Bent Optical Fibre Sensor: A Theoretical and Experimental Approach" International Journal of Computer Sciences and Engineering, 2016</p> <p>S Laskar, Bordoloi, S., "Development of an instrumentation system for measurement of degradation of lubricating oil using optical fiber sensor" Optical Fiber Technology, 2016</p> <p>Baruah P, Bordoloi S, "Application of Bare, Tapered and Bent Multimode Optical Fibre Refractometer for Measuring the Concentration of Glucose Solution" AJET, 2016</p> <p>S Laskar, Bordoloi, S., "Microcontroller-based instrumentation system for measurement of refractive index of liquid using bare, tapered and bent fibre as sensor" IET Optoelectronics, 2013</p> <p>S Laskar, Bordoloi, S., "Monitoring of Moisture in Transformer Oil Using Optical Fiber as Sensor" Journal of Photonics, 2013</p> <p>Bordoloi S, Laskar S, Hazarika D., "Transformer oil moisture monitoring instrumentation system using optical fibre sensor" Indian Journal of Science and Technology, 2013</p> <p>Vatsayan P, Chakraborty M, Bordoloi S, Goswami P "Direct electrochemistry of cytochrome P450 monooxygenase from Aspergillus terreus immobilized on MWCNT-NF/PEI modified glassy carbon electrode" Electroanalytical Chemistry, 2011</p> <p>Vatsayan P, Chakraborty M, Bordoloi S, Goswami P., "Large catalase based bioelectrode for biosensor applications," Biophysical Chemistry, 2010</p>



GIRIJANANDA CHOWDHURY UNIVERSITY, ASSAM

Department of Electrical Engineering

List of Publications

Sl No	Name of the Faculty	List of Publications
2	Mr. Prithvi N. Sinha	Sinha, P.N.; Choudhury, S., "Aggregate technical and Commercial loss analysis in the as of Kamrup district under GECII, Assam: A case study", International Journal of Creative Research Thoughts, ISSN: 2320-2882, April, 2018 (UGC Approved)
		Sinha, P.N.; Choudhury, S., "Design And Estimation Of Solar Photovoltaic Power Plant For Department Of Electrical Engineering, Girijananda Chowdhury Institute Of Management & Technology, Guwahati," International journal of creative research thoughts, ISSN: 2320-2882, April, 2018 (UGC Approved)
		Choudhury S; Sinha, P.N., "Nonlinear filter performance for Removing salt and pepper noise from Gray scale images: an experimental Analysis", International Journal of Creative Research Thoughts, ISSN: 2320-2882, April, 2018 (UGC Approved)
		Sinha, P.N; Choudhury,S.;Barbhuiya, A.R.; Sarma, M.; Qaium, A; Hazarika, N., "Estimation and Cost Analysis of Solar PV System by Complete Replacement of Grid-powered system in GIPS, Guwahati" International Journal of Management, Technology And Engineering, ISSN NO : 2249-7455, Volume IX, Issue VI, JUNE/2019 (UGC Approved)
		Sinha, P.N; Choudhury,S.; Goswami, B.; Sarma, A.; Das, V.; Sonowal, A., "Design, Estimation and cost Analysis of a Solar PV System for Boys' Hostel, GIMT-Guwahati" International Journal of Management, Technology And Engineering, ISSN NO : 2249-7455, Volume IX, Issue VI, JUNE/2019 (UGC Approved)
		Sinha, P.N; Choudhury,S., "Removal of Salt and Pepper Noise in Gray Scale Digital Images- A Comparative Analysis of Performance of Non Linear Filters" International Journal of Management, Technology And Engineering, ISSN NO : 2249-7455 Volume IX, Issue VI, JUNE/2019 (UGC Approved)
		Sinha, P.N; Choudhury,S., "Development of Energy Sector in India- Policies and Initiatives Taken by Government of India" International Journal for Research in Applied Science & Engineering Technology, ISSN: 2321-9653; Volume 7 Issue VI, June 2019 (UGC Approved)
		Sinha, P.N; Choudhury,S., "A Study of India's Energy Scenario: Journey from Conventional to Renewable Energy" International Journal for Research in Applied Science & Engineering Technology, ISSN: 2321-9653; Volume 7 Issue VI, June 2019 (UGC Approved)
3	Mr. Sanjib Hazarika	Analysis of 220 KV transmission line, IJSART, Issue 2, February 2018, ISSN 2395-1052,
		Transmission Line improvement using Reconductoring Method, IJRSI, Issue 03, Volume 05, March 2018, ISSN 2321-2705
		Prospects of Solar Energy in North Eastern Region of India. International Conference on RTESM (1st&2nd April 2017), ISBN: 978-93-86171-12-2
		Designing of Solar street lighting system. Sanjib Hazarika (2nd). Biplobjyoti Saikia (1st); IJMTESS; ISSN 2348-3121; Issue 06, Volume 04, Jan-June 2017



GIRIJANANDA CHOWDHURY UNIVERSITY, ASSAM

Department of Electrical Engineering

List of Publications

Sl No	Name of the Faculty	List of Publications
		<p>Solar wind hybrid model, a case study in North Eastern Region. Sanjib Hazarika (1st), Biplobjyoti Saikia (2nd), International Conference on ICRISEM (5th June 2016), ISBN: 978-81-932074-2-0,</p> <p>Power flow analysis on IEEE 57 bus system using MATLAB. IJERT, ISSN : 2278-0181 Vol-3, Issue 8, 2014</p> <p>Improving Distribution Efficiency of Electrical Network using Geo Electrical Options. (Energy Efficiency, DOI 10.1007/s12053-012-9153-y, Published online 03 April 2012)</p> <p>A Practical Approach for Distribution Loss Reduction in Assam using Network Re-conductoring method, IJERT, Vol 3, September-2014, 2278-0181</p> <p>Sanjib Hazarika, Biplobjyoti Saikia, "Prospects of Solar Energy in North Eastern Region of India"; IJEEE; ISSN 2321-2055; Issue 1, January-June 2017</p>
4	Ms. Suranjana Bharadwaj	<p>Bharadwaj Suranjana; "Deployment of Smart Grid in India: Challenges, Prospects and Current Status", International journal of Engineering development and research (IJEDR), ISSN: 2321-9939, Vol 10, Issue3, 3rd Sept 2022</p> <p>Bharadwaj Suranjana, "Renewable Distributed Generation and its Impact in Rural India", Indian Journal of Computer Science and Engineering, 2347-2693, Vol.-7, Issue-6, Jun 2019</p> <p>Bharadwaj Suranjana, "Medium Term Load Forecasting using Time-Series Regression and Fuzzy Logic for the State of Assam", International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, Vol. 6, Issue 7, July 2017</p> <p>Bharadwaj Suranjana, "Application of Fuzzy Logic in Load Frequency Control of Two Area Power System", International Journal of Scientific & Engineering Research, ISSN 2229-5518, Volume 5, Issue 11, November-2014</p> <p>Bharadwaj Suranjana, "A Study on Gas Insulated Substation with reference to 230/33kV GIS, Khanapara", International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering", ISSN 2278-8875, Vol. 5, Issue 6, June 2016</p>
5	Ms. Pallavi Roy	<p>Roy Pallavi, "Prospect and application of biogas technology for rural communities of India", International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering (IJAREEIE), ISSN 2320-3765, Volume 7, Issue 5, May 2018</p> <p>Roy Pallavi, "Wireless home automation system based on 8051 microcontroller using android application" International Journal of Creative Research Thoughts, ISSN: 2320-2882, Volume 6, April, 2018 (UGC Approved)</p>



GIRIJANANDA CHOWDHURY UNIVERSITY, ASSAM

Department of Electrical Engineering

List of Publications

SI No	Name of the Faculty	List of Publications
		Roy Pallavi,kaushik Kaustav,Singh Pritam,Baishya Manash Pratim,Sarmah Debraj,"GSM Based Energy Meter Reading System with Remote Cut-Off and GUI Application",,International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering (IJAREEIE),ISSN 2320-3765 Volume -6, Issue 6,June 2017
		Roy Pallavi,Misra Pritam,Saharia Paramananda,Sarma Rituraj,Pathak Shantanu,"Study of PLC based Load Shedding Schemes in a Captive Power Plant",International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering (IJAREEIE),ISSN 2320-3765,Volume 9, Issue 7, July 2020
		Roy Pallavi,Misra Pritam,Saharia Paramananda,Sarma Rituraj,Pathak Shantanu,"A Study of Remote Monitoring of aTransformer using IoT",International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering (IJAREEIE),ISSN 2320-3765,Volume 9, Issue 7, July 2020
		Roy Pallavi,Talukdar Bani Kanta,"Design and analysis of a stand alone PV system for a rural area using HOMER PRO Software",International Journal of Creative Research Thoughts, ISSN: 2320-2882, Volume 10,Issue 7,July 2022
		Roy Pallavi,Kalita Tridisha,Gogoi Sanjukta,Suvadashini Shalini,Thakur Darshana,"Insulation Resistance Test and Oil Test of Distribution Transformer",International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering (IJAREEIE),ISSN 2320-3765,Volume 6,Issue 6,June 2016
		Roy Pallavi,Bodo Partha,Chowdhury Paran,"Modeling and design of a thermoelectric generator for waste heat recovery", 2nd IEEE IAS International Conference on Computational Performance Evaluation (ComPE-2021), December 1-3, 2021.
		Roy Pallavi,Kataki S,Baruah DC,"Measurement of anaerobic digested slurry for enhancing profitability of Biogas",Internatipnal conference on Green Energy & Smart Materials through Science, Technology and Management",Gauhati University and University of South Africa,January 21-23,2014
		Roy Pallavi,Patowary D,Baruah DC,"Assessment of anaerobic digestate generation and its proper utilization for enhancing the economy of biogas technology", International conference on Aspects of mechanical Engineering and technology for industry"December6-7,2014
		Saikia K.Roy P.Patowary D,Kataki S,Medhi H,Das P,West H,Clarke M,Baruah DC,"By-Products of Bioenergy Systems (Anaerobic Digestion and Gasification): Generation and Prospects of Utilization", Utilization and Management of Bioresources,Springer Singapore,261-270,ISBN 978-981-10-5349-8,Published: 10 October 2017
6	Dr. Bipul Kumar Talukdar	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)



GIRIJANANDA CHOWDHURY UNIVERSITY, ASSAM

Department of Electrical Engineering

List of Publications

Sl No	Name of the Faculty	List of Publications
		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)
		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)
		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)
		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. https://doi.org/10.31018/jans.v13i4.2950 (SCOPUS indexed)
		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.
		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
		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.
		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.
		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, GIMT, Guwahati, Assam, India in association with International Journal of Computer Science and Engineering, IJCSE.
		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.



GIRIJANANDA CHOWDHURY UNIVERSITY, ASSAM

Department of Electrical Engineering

List of Publications

SI No	Name of the Faculty	List of Publications
		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
		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 (NCRAS-2018) on 15th – 17th March, 2018, organized by Assam Science and Technology University, Under TEQIP-III, MHRD, New Delhi.
		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.
		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, (NCRAS-2019) organized by Assam Science and Technology University, under TEQIP-III, MHRD, New Delhi on May 15-17, 2019.
		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.
		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
		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
		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.
		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
		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



GIRIJANANDA CHOWDHURY UNIVERSITY, ASSAM

Department of Electrical Engineering

List of Publications

SI No	Name of the Faculty	List of Publications
		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.