



Dr. Priyanath Das, BE (TU), ME (Bengal Engg. College, Shibpur), Ph.D (Jadavpur University)

Professor (EE).

Department of Electrical Engineering, National Institute of Technology Agartala, Agartala- 799046, West Tripura, India.

Area of Interest: Power Systems, High Voltage Engineering, Solar Photovoltaic Systems.

Dr. Priyanath Das joined the Institute in 1996

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Residence

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Academic Contribution:

PhD supervision:

Till date 7 PhD scholars awarded as well as 5 PhD scholars are ongoing through their thesis work.

M.Tech Supervision:

Till date 36 M.Tech scholar been guided out of which 2 M.tech scholar thesis guided was POSOCO Power System Awardee

Journal : 47 Nos. of Journals

1. **Priyanath Das**, SunitaHalder Nee Dey, AbhijitChakrabarti, and TanayaDatta, "Assessment of Voltage Stability Using Network Equivalent", TELKOMNIKA: Indonesian Journal of Electrical Engineering ISSN: 1693-6930 Paper ID 060-12-2011 Vol.9 No.3, December, 2011, Accredited by Ministry of National Education, Republic of Indonesia Publisher: Universitas Ahmad Dahlan (UAD).
2. Kallol Das, **Priyanath Das**, and Sharmistha Sharma, "Load Frequency Control Using Classical Controller In An Isolated Single Area And Two Area Reheat Thermal Power System", International Journal of Emerging Technology and Advanced Engineering. Vol. 2, Issue 3, pp. 403-409, March,2012.
3. **Priyanath Das**, SunitaHalder nee Dey, AbhijitChakrabarti,andMadhumitaMandal, "A unique method of study on power and loss allocation of a multibus power system employing facts controllers", International Journal of Emerging Technology and Advanced Engineering. Vol. 2, Issue 6, June,2012.

4. AnulekhaSaha, **Priyanath Das**, and Ajoy Kumar Chakraborty, “Performance Analysis and Comparison of Various FACTS Devices in Power System”, International Journal of Computer Applications 11(0975-8887). Vol. 46- No. 15, May2012.
5. SumankrSaha, **Priyanath Das**, and AjoykumarChakraborty, “An ANN Based Relay Design For Identification Of Faults Of 400kv Ehvtransmission Line”, International Journal of Computer Applications 11(0975-8887). Vol. 46- No. 15, May2012.
6. PrasenjitDey, **Priyanath Das**, and Ajoy Kumar Chakraborty, “Implementation of Power Transformer Differential Protection Based on Clarke’s Transform and Fuzzy Systems”, International Journal of Engineering Research & Technology (IJERT) Vol. 1 Issue 7, ISSN: 2278-0181, September,2012.
7. SamimaAkter, AnulekhaSaha, **Priyanath Das**, “Modeling, simulation and comparison of various FACTs devices in power system”, International Journal of Engineering Research & Technology (IJERT), 1(8): 1-12,2012.
8. SamimaAkter,**Priyanath Das**, “Comparison of the Performance of IPFC (series- series) and UPFC (series-shunt) FACTS Controller in Power System”, International Journal of Computer Applications (IJCA) Vol. 67 Issue 2, ISSN: 0975 – 8887, April2013.
9. AsimDatta, DebasreeSaha, Amitava Ray, and **Priyanath Das**, “Anti-islanding selection for grid-connected solar photovoltaic system applications: A MCDM based distance approach” , Solar Energy 110 (2014) 519–532,Elsevier.
10. SamimaAkter, **Priyanath Das**, and B. K. Saha Roy, “An Algorithm for Directional Relay during Voltage Inversion”, International Journal of Control Theory and Application, 8(3): 1189-1200, 2015.
11. DebasreeSaha, AsimDatta, Biman Kumar Saha Roy, and **Priyanath Das**,“A comparative study on the computation of directional overcurrent relay coordination in power systems using PSO and TLBO based optimization”, EngineeringComputations,2016.
12. SamimaAkter, V. K. Kharga, **Priyanath Das**, and B. K. Saha Roy, “Development of Fault Location Algorithm by using PMU for Power System Protection”, International Journal of Control Theory and Application, 8(3): 1201-1208,2015.
13. TapajitGhosh, SumanDebnath, and**Priyanath Das**,“ Development & Implementation of Direct Torque Control for Three Phase Induction Motor Drives”, International Journal of Advanced Scientific and Technical Research, Vol. 1, Issue 3, pp. 60-67, ISSN: 2249-9954. January –Februry ,2013.
14. SaptadipSaha, **Priyanath Das**, Ajoy Kumar Chakraborty, SharmisthaSarkar, RuchiraDebbarma, “Fabrication of hybrid ultraviolet photodetector using organic polymer thin-film- coated TiO₂ nanowires”, Journal of Nanophotonics, Vol. 10, Issue 2, pp. 026011-1-9,ISSN: 1934-2608,2016.
15. SaptadipSaha, **Priyanath Das**, Ajoy Kumar Chakraborty, SharmisthaSarkar, RuchiraDebbarma,“Fabrication of DSSC with Nanoporous TiO₂ Film andKenaf Hibiscus Dye as Sensitizer”, International Journal of Renewable Energy Research, Vol. 6, Issue 2, pp. 620- 627, ISSN: 1309-0127,2016.
16. SaptadipSaha, SamimaAkter, Kailash Kumar Mahto, **Priyanath Das**, Ajoy Kumar Chakraborty, Gaurav Kumar Awasthi,“Improvement in Power Efficiency of Photovoltaic Array Under Shading Condition Using Bypass Diode”, International Journal of Renewable Energy Research, Vol. 6, Issue 2, pp. 628-636, ISSN:1309-0127,2016.
17. SaptadipSaha, **Priyanath Das**, Ajoy Kumar Chakraborty, RuchiraDebbarma, SharmisthaSarkar, “Hybrid Solar Cell With TiO₂ Film: BBOT Polymer And CopperPhthalocyanine As Sensitizer”, Advances In Electrical And Electronic Engineering, Vol. 14, Issue 3, pp. 345-351,ISSN: 1804-3119,2016 .
- 18.G. Saha, K. Chakraborty and **P .Das** , “Detection of Proximity to Voltage Collapse ofMulti-Bus Power Network using Transmission Line Voltage Stability Indicator.” , ARPN Journal of Engineering and Applied Sciences, vol. 11, no. 17, September 2016, pp. 10689-10694.
18. G. Saha, K. Chakraborty and **P .Das** ,“ A Direct Method for Voltage Stability

Prediction on Power Networks using Supervised Learning Algorithm in Smart Grid Scenario.”, *International Journal of Engineering & Technology IJET-IJENS*, vol.17, no.4, August 2017, pp.1-8.

19. DebasreeSaha, AsimDatta, **Priyanath Das** Optimal coordination of directional overcurrent relays in power systems using Symbiotic organism Search (SOS) optimization technique, , *IET Generation, Transmission & Distribution*, Volume: 10, pp. 2681 – 2688, **Date of Publication:** 15 August 2016.

20. SamimaAkter, H. Badhai, **Priyanath Das** and B. K. Saha Roy, “Detection of Fault Direction and Location in Compensated System using Sequence Component”, *IJST*, 9(12): 1-13, 2016.

21. SaptadipSaha, *SamimaAkter*, Kailash K Mahto, **Priyanath Das** and Ajoy Kumar Chakraborty, “Improvement of Power Efficiency in of Photo Voltaic Array under shading condition using bypass diode”, *International Journal of Renewable Energy Research (IJRER)*, 6(2): 1-9, 2016.

22. *SamimaAkter*, SaptadipSaha and **Priyanath Das**, “Impact of Temperature on Performance of Photovoltaic System at NIT Agartala Campus-A Case Study”, *International journal of control theory and applications*, 10(6): 327-334,2017.

23. SamimaAkter, SaptadipSaha and **Priyanath Das**, “Power improvement in PV panel under temperature variation fault using refrigeration mechanism and its implementation”, *Journal of Engineering Research (Accepted24-07-2017)*.

24. Dey, Prasenjit, Aniruddha Bhattacharya, and **Priyanath Das**. "Tuning of power system stabilizer for small signal stability improvement of interconnected power system." *Applied Computing and Informatics* (2017).(Elsevier)

25. Anulekha saha, **Priyanath das**, Ajoy kumar Chakraborty, “water evaporation algorithm: a new meta-heuristic algorithm towards the solution of optimal power flow” *Engineering science and technology, an international journal*, vol.20, issue 6, pp 1540-1552. 2017. ISSN2215-0986.(SCOPUS)

26. AnulekhaSaha, Aniruddha Bhattacharya, **Priyanath Das**, Ajoy Kumar Chakraborty, “A powerful metaheuristic algorithm to solve static optimal powerflow problems:symbiotic organisms search”, *International Journal on ElectricalEngineering and Informatics*. (SCOPUS) DOI: 10.15676/ijeel.2018.10.3.10

27. A.Saha, A.K. Chakraborty, **P. Das**, 'Quasi-reflection based symbiotic organisms search algorithm for solving static optimal power flow problem', *ScientiaIranica*. DOI: 10.24200/SCI.2018.20179

28. D.saha, B.K. Saha Roy and **P.N. Das**, “An Adaptive protection coordination Technique for unbalanced 3-Phase Radial Distribution system, Journal of Engineering Research June,2019
29. AnulekhaSaha, Aniruddha Bhattacharya, **Priyanath Das**, Ajoy Kumar Chakraborty, “HSOS: A novel hybrid algorithm for solving the transient stability constrained OPF problem”, *Soft Computing* (accepted) (SCIE) (IF:2.367),2019
30. AnulekhaSaha, Aniruddh a Bhattacharya, **Priyanath Das**, Ajoy Kumar Chakraborty, "A novel approach towards uncertainty modeling in multi-objective optimal power flow with renewable integration”, *Int Trans Electr Energ Syst.* 2019. (Accepted) (SCIE) (IF:1.619),2019.
31. D.saha,B.K.SAHAROY,ANDP.N.DAS,”Onlineadaptiveprotectionscheme for electrical distribution network with high penetration of renewable energy sources”, Journal of Engineering Research on 15.04.2018.
32. Dey, Prasenjit, Aniruddha Bhattacharya, and **Priyanath Das**. “Tuned Power System Stabilizer for Enhancing Small Signal Stability of Large Interconnected Power System” CARIBBEAN JOURNAL OF SCIENCE 53, no.1 (2019). 843-857 (SCIE)
33. Dey, Prasenjit, SouravMitra, Aniruddha Bhattacharya, and **Priyanath Das**. "Comparative study of the effects of SVC and TCSC on the small signal stability of a power system with renewables." Journal of Renewable and Sustainable Energy11, no. 3 (2019): 033305.(SCIE)
34. Samimaaktar, **Priyanath Das**, BimankumarSaha Roy, “positive sequence component based directional raleyngalalgorithm for single pole tripping”, springer. DOI:10.1007/s13369-019-04130-z,2019
35. Durbanjali Das, SaptadipSaha, **Priyanath Das**, “Design of a solar MPPT with improved Fuzzy logic” IJRTE, ELSEVIER (SCOPUS), Sept.2019.
36. Rita Banik , P. Das , S. Ray , A Biswas Wind power generation probabilistic modeling using ensemble learning techniques, Journal of Materials Today: Proc, Elsevier.DOI:<https://doi.org/10.1016/j.matpr.2020.02.464>
37. Rita Banik , S. Ray , P. Das , A Biswas Optimization of Hybrid energy systems: An analysis of Soft computing approaches, IJSTR, ISSN:2277-8616, Vol: 9, Issue: 3 ,March2020
38. SamimaAkteer, SandeepBiswal, Natwar Singh Rathore, **Priyanath Das**, “Amplitude based directional relaying scheme for UPFC compensated line during single pole tripping” Electric Power Systems Research,<https://doi.org/10.1016/j.epsr.2020.106290>, 26th February2020.
39. Akter, S., Biswal, S., Adly, A. R., Chakraborti, A., Roy, B. K., Das, P., & Abdelaziz, A. Y. (2022). Impedance based directional relaying for smart power networks integrating with converter interfaced photovoltaic plants. *Electric Power Systems Research*, 213, 108711.
40. Kailash Kumar Mahto, Pradipta Kumar Pal, Priyanath Das, Sudhanshu Mittal, Bidyut Mahato “A New Design of Multilevel Inverter Based on T-type Symmetrical and Asymmetrical DC Sources”. Iranian Journal of Science and Technology, Transactions of Electrical Engineering. October’
41. Gitanjali Saha, Kabir Chakraborty, Priyanath Das, “Enrichment of voltage stability in power system through novel generalized approximate reasoning based intelligent control with african buffalo optimization approach” APPLICATION OF SOFT COMPUTING. December’22.
42. Mahto, K. K., Pal, P. K., Das, P., Mittal, S., & Mahato, B. (2022). A New Design of Multilevel Inverter Based on T-type Symmetrical and Asymmetrical DC Sources. *Iranian Journal of Science and Technology, Transactions of Electrical Engineering*, 1-19.
43. Durbanjali Das, Priyanath Das , Kailash Kumar Mahto , Ankita Bhatt, “A New Criss-

Cross based asymmetrically configured T-Type Multi-level Inverter". *Microsystem Technologies* (ACCEPTED).

44. Durbanjali Das, Priyanath Das, Kailash Kumar Mahto, Pooja Prakash , A Novel HK-Type Multi-level Inverter for Reduced Powe Electronic Devices" *Microsystem Technologies*(ACCEPTED)

45. Durbanjali Das , Pradipta Kumar Pal , Priyanath Das , Kailash Kumar Mahato , Bidyut Mahato, "Lesser Switches Multilevel Inverter: An Approach with Different Values of DC Sources" *Microsystem Technologies*(ACCEPTED).

46. Kailash Kumar Mahto , Priyanath Das , Durbanjali Das, Sudhanshu Mittal , Bidyut Mahato, "A New Criss-Cross based asymmetrically configured T-Type Multi-level Inverter" *Microsystem Technologies*(ACCEPTED).

47. Kailash kumar Mahto, Priyanath Das, Durbanjali Das, Ananyo Bhattacharya, Bidyut Mahato' "A New Symmetrical DC Sources based DC/AC Converter with Experimental Verification" *Microsystem Technologies*(ACCEPTED).

Conference : 33 Nos. of Conferences

1. A. Chakrabarti, SunitaDey, C. K. Chanda,**Priyanath Das**, Dr. A. K. Mukhopadhyay,"Determination of Global Voltage Security of a Weak Power System using Load Flow Analysis", In: Proceeding of the International Conference in Japan, 2003,JAAC-2003.
2. A. Chakrabarti, C. K. Chanda, S. Sey, **Priyanath Das**, and Dr. A. K. Mukhopadhyay "Development of a Simulation Technique to facilitate Control and improvement of Voltage Stability of Power Transmission System using Fast Decoupled Load Flow(FDLF)", In: Proceeding of the International Conference on CIIC,13-15th Dec'2001, Calcutta.
3. Sumita Halder nee Dey, Rangita Choudhury, and **Priyanath Das**, "A novel method to assess global voltage stability of a multi bus power system", In: IEEE,ICPS-2009 Third International Conference on Power System, Kharagpur, 27-29thDec'2009.
4. **Priyanath Das**, and J. L. Beniwal, "Modelling of 96 pulse GTO basedSTATCOM for voltage regulation on reactive power control", In: ICEPES-2010, MANITBhopal.
5. **Priyanath Das**, and J. L. Beniwal, "Modelling of voltage source converter with STATCOM", In: ICEPES-2010, MANITBhopal.
6. **Priyanath Das**, SunitaHaldar nee Dey, AbhijitChakrabarti, and Tanya Datta, "A comparative study in improvement of voltage security in a Multi bus Power System using STATCOM and SVC", In: IEEE International Conference on Energy, Automation and Signal(ICEAS-2011, 28-30thDec'2011).
7. Arup Ratan Bhowmik, Dr. Ajoy Kumar Chakraborty, and **Priyanath Das**, "Optimul Location of UPFC Based on Pso Algorithm Considering Active Power Loss Minimization", In: IEEE 5th Power India Conference - 2012, 19-22 Dec, 2012, Haryana (India).
8. Debasree Saha, **Priyanath Das**, and S. Chowdhury, "Design Trends of Linear Induction Motor(LIM) and design Issues of a Single Sided LIM", In: International Conference on Control, Instrumentation, Energy & Communication, CIEC-14, University of Calcutta, Kolkata, Jan. 31- Feb. 02,2014.
9. S. Bagchi, R. Bhaduri, **P.N. Das**, S. Banerjee, "Analysis of power transfer capability of a long transmission line using FACTS devices", *Advances in Computing, Communications*

and Informatics (ICACCI), 2015 International Conference, IEEE on 10-13 Aug.2015.

10. DebasreeSaha, AsimDatta, Biman Kumar Saha Roy, and **Priyanath Das**, "Optimal Coordination of DOCR in interconnected Power Systems", In: 2nd International Conference on Control, Instrumentation, Energy and Communication 2016 (CIEC-16), University of Calcutta, Kolkata January 28-30,2016.
11. **Priyanath Das**, Aniruddha Bhattacharya, "Power System State Estimation Using Hybrid Differential Evolution", National Seminar on Energy Science and Engineering (NSESE-2013), Tripura Institute of Technology, Narsingarh, Tripura,India.
12. SaptadipSaha, **Priyanath Das**, Kailash Kumar Mahto,SamimaAkter, "Improvement of Output Power of Photovoltaic Modules Connected In Series Under Shading", International Conference on Researches in Science and Technology (ICRST), World Association for Scientific Research and Technical Innovation,Thailand,2016
13. DebasreeSaha, AsimDatta, Biman Kumar Saha Roy, **Priyanath Das**, Optimal Coordination of DOCR in interconnected Power Systems, 2nd International Conference on Control, Instrumentation, Energy and Communication 2016 (CIEC-16), University of Calcutta, Kolkata January 28-30,2016.
14. *Samima Akter*, H. Badhai, B. K. Saha Roy and **P. N. Das**, "A Fault Location Identification Technique using Wavelet Transform", The Fifth International Multi-Conference on Engineering and Technology Innovation 2016 (IMETI2016), October 28-November 01, 2016, Taichung,Taiwan.
15. Saha A, Bhattacharya A, **Das P**, Chakraborty AK. Optimal power flow using crow search algorithm, 2 nd IEEE International Conference on Electrical, Computer and Communication, 1: 22-24, February2017.
16. Saha A, Bhattacharya A, **Das P**, Chakraborty AK. Water evaporation optimization technique for static optimal power flow problems, IEEE 2 nd International Conferences for Convergence of Technology, 7-9 March2017.
17. Dey, Prasenjit, Aniruddha Bhattacharya, JuhiDatta, and **Priyanath Das**. "Small signal stability improvement of large interconnected power systems using power system stabilizer." In 2017 2nd International Conference for Convergence in Technology (I2CT), pp. 753-760. IEEE,2017.
18. Dey, Prasenjit, Aniruddha Bhattacharya, JuhiDatta, and **Priyanath Das**. "Parameter tuning of power system stabilizer using a meta-heuristic algorithm." In 2017 Second International Conference on Electrical, Computer and Communication Technologies (ICECCT), pp. 1-8. IEEE,2017.
19. **PriyanathDas**, SaptadipSaha ,santanuSatpati , "Influence of Irradiance and Temperature Variation On PV Modules In Grid Connected MPPT Based Distributed Generation System", 19th International Conference on Researches in Science &Technology (ICRST), July2017.
20. A. Saha, A. Bhattacharya , **P. Das** , A.K Chakraborty," CDO - a new metaheuristic algorithm towards the solution of transient stability constrained optimal power flow", *The 6thInternationalElectrical Engineering Congress (IEECON)*, 7 – 9 March2018.

21. Ankit Singh, SaptadipSaha, **Priyanath Das**, SoumeshChatterjee, PurviChandrakar, SajalDebbarma. Power tracing in distributionnetwork in deregulated powerenvironment7thIEEE international conference, March 28-292018.
22. SajalDebbarma, SapatdipSaha, **Priyanath Das**, Ankit Singh, PurviChandrakar Design of a location based adaptive MPP tracker for PVsystem. 7th IEEE international conference, March 28-29 2018.
23. Purvi Chandrakar,Saptadip Saha,**Priyanath Das**,Ankit Singh,Sajal Debbarma.'Grid integration of PV system Using syncroinverter' 7th IEEE international conference, March 28-29 2018.
24. AmitChakraborty ; DiptanuDey ; **Priyanath Das**, 'Investigation of Energy Consumption and Reservation Scheme using Energy Auditing Techniques' [International Conference on Smart Systems and Inventive Technology \(ICSSIT\)](#)2018.
25. DebasreeSaha, Biman Kumar Saha Roy, **Priyanath Das** "Anti-Islanding Detection Method selection for Grid Connected DFIG Wind Farms using ANP method", in7th Power India International Conference (IEEE PIICON 2016), Govt. Engineering College Bikaner, Rajasthan, November 25-27, 2016.
26. Dey, Prasenjit, Aniruddha Bhattacharya, and **Priyanath Das**. "Tuning of Power System Stabilizers in Multi-Machine Power Systems Using Moth Flame Optimization." In 2018 International Electrical Engineering Congress (iEECON), pp. 1-4. IEEE,2018.
27. Attended National Conference on Smart and Sustainable city infrastructure 29th Nov.2018.IEEE Conference on Energy audit and conservation in an educational Institution :A casestudy,Dec.2018
28. AmitChakraborty ; DiptanuDey ; **Priyanath Das**, 'Solar cell efficiency enhancement using embedded surface plasmonicanoparticals in various medium "[International Conference on Smart Systems and Inventive Technology \(ICSSIT\)](#)2019.
29. Rita Banik, **Priyanath Das**, Srimanta Ray and AnkurBiswas An improved ANN model for prediction of solar radiation using machine learning approach, In ICCCIOT, Tripura University 3-4 Feb,2020
30. Raj Chakraborty, Diptanu Das, **Priyanath Das**. "Optimal Placement of Electric Vehicle Charging Station with V2G Provision using Symbiotic organisms Search Algorithm" IEEE International Students' Conference on Electrical, Electronics and Computer Science, 19-20 Feb 2022.
31. Raj Chakraborty, Diptanu Das, **Priyanath Das**. "Optimal Allocation of Electric Vehicle Charging Station using Sysbiotic Organisms Search Alogrithm and Reliability Index Approach". Inrenational Conference on Breakthrough in Heuristics And Reciprocation of Advanced Technologies, 7-8 April 2022.

32. Raj Chakraborty, **Priyanath Das**, Diptanu Das, “Optimal Planning of Electric Vehicle Charging Station in Radial Distribution Network considering System Average Interruption Frequency Index”. 2022 IEEE 6th International Conference on Condition Assessment Techniques in Electrical Systems (CATCON)
33. Punam Das, Diptanu Das, Arup Ratan Bhowmik, Priyanath Das, “Symbiotic Organisms Search Algorithm to Optimally Allocate EV Charging Station in Radial Distribution Network”. IEEE Power, Instrumentation, Energy, and Control (PIECON-2023)

BOOK CHAPTER:

1. Soubhik Bagchi, Raj Chakraborty, Pritam Bhowmik, Priyanath Das, “Modern Control of Grid Connected PV System- A Critical Review” Nova Science Publisher.
2. Raj Chakraborty, Soubhik Bagchi, Punam Das, Priyanath Das, Diptanu Das, “Planning of EV Charging Station in Distribution Network” Nova Science Publisher.

Administrative Experience:

Employer	Post held	Date of Joining	Date of leaving
NIT Agartala	HOD (EE)	19/05/2021	Till date
NIT Agartala	Professor	05.02.2020	Till date
NIT Agartala	Associate Professor	04.04.2008	04.02.2020
NIT Agartala	Assistant Professor	01.04.2006	03.04.2008
Govt. of Tripura	Assistant Professor	04.04.2005	31.03.2006
Govt. of Tripura	Lecturer (Senior Scale)	22.02.2002	03.04.2005
Govt. of Tripura	Lecturer	23.02.96	21.02.2005
NIT Agartala	Chief Warden	02.08.2007	31.07.2009
		12.02.2010	29-11-2010
NIT Agartala	Dean (SA)	20-04-2009	05.10.2009
		17.02.2014	14.09.2017
NIT Agartala	BOG Members	2011	2013
NIT Agartala	Senate Member	12.09.2009	Till date
NIT Agartala	HOD (EE)	10.12.2012	16.02.2014
		15.09.2017	15.11.2019(forenoon)
		19.05.2021	Till date
NIT Agartala	Associate Dean(P&D)	15.07.2020	Till date
NIT Agartala	DPC Chairman	11.09.2008	10.09.2010
NIT Agartala	Director (I/C)	230 days	

Apart from all these Professor Das brings a key rule on time of TEC to NIT conversion and at that time he was General Secretary of TEACHERS ASSOCIATION OF NIT AGARTALA for 6 years.

He also plays a major role on NIT Agartala 1st time transportation services (Bus Services).

Member of Professional Bodies:

- i. Member of Indian Society for Technical Education(ISTE)
- ii. Fellow of Institution of Engineers (India)(IEI) (1996-2015),AMIE (2015-tilldate), FIE
- iii. Life Member of FOSET
- iv. Life Member of The Indian Institute For Technical Education

Plays a major role on IEI activity, 2018 inaugurated an international conference on HVDC transmission in collaboration with IEL.

At present IEI Electrical Engineering Division Chairman, this year conducted 2 webinars in IEI

Sponsored Projects:

Project Title: “Modernization of Advance Power System Laboratory”

Amount: 12 Lakhs

Principal Investigator: Mr. Priyanath Das

Co-Principal Investigator: Mr. Prabir Ranjan Kasari

Sponsor: All India Council for Technical Education (AICTE).

Project Title: “Fabrication of nanostructure based solar cell/photodetector with organic/inorganic materials”

Amount: 0.85 Lakhs

Principal Investigator: Mr.

SaptadipSaha **Co-Principal Investigator:**

Dr. Priyanath Das **Sponsor:** Institution of Engineers (India).

Apart from these 2 SCI journals are also published through these projects.

Publications

• **Book :**

- (1) **Priyanath Das**, “Control Of Temperature And Relative Humidity In A/C Coaches”, Lambert Academic Publishing, ISBN978-3-659-24866-5.
- (2) **Priyanath Das**, “Modeling and Simulation of various FACTS devices in Power System”, LAP, ISBN978-3-659-80125-9.

Patent Granted :

1. **Title:** A MULTIPLE POWER SOURCE BASED ELECTRICALDRIVE(1st Patent in NIT Agartala and Tripura)
Application NO.: 201631005530.
Filing Date: 17th Feb, 2016.

Granted on 30.01.2021 for 20 years

2. Sangita Devi, Rajkush Kumar, Priyanath Das , Kishan Choudhuri, Nabarun Biswas, “APPARATUS FOR COLLECTING RECYCLABLE OBJECTS AND DISPENSING REWARDS”.
Application No.: 202111050971
Date of Grant: 18/10/2022
3. **One Product has been launched recently, through which 1 patent has been filed.**

Session Chair:

1. Certificate Of Appreciation As Session Chair At 5th International Conference On Energy Systems, Drives And Automation (ESDA 2022) from 31/12/2022 to 01/01/2023.
2. Session chair at International Conference On Intelligent Vision And Computing (ICIVC 2022) organized by NIT Agartala from 26-27 Nov, 2022.
3. Session chair at 4th International Conference On Energy , Power And Environment (ICEPE 2022) organized by NIT Meghalaya from 29th April -1st May, 2022.
4. Session chair at National Level Conference on Engineering Problems and Application of Mathematics- 2016, NIT Agartala, June,2016.
5. Session chair at Fifth International Multi-conference on Engineering and Technology Inoovation2016.

Invited Speech/ Key note lecture

1. Key note speaker at Chottagram, Bangladesh, organized by IEB.
2. Key note speaker at RECENT EMERGING TRENDS IN SCIENCE, ENGINEERING AND MANAGEMENT (RETSEM-2021) LDC Institute Of Technical Studies, Soran, Allahabad. 7-8 Th Oct, 2021,
3. Delivered Lecture as Speaker On “Modern Trends In Electrical Engineering” Organized By B.C Roy College of Engineering, Durgapur, Kolkata in FDP From 23-27th June 2020.
4. Delivered Lecture as Speaker On “High Voltage Engineering” Organized by ICFAI University, Tripura on 7th May 2021
5. Delivered Lecture As Speaker On “Advances in Clean Energy Conversion Technologies” November 22-26, 2022, At NIT Silchar.

Participation Certificate

1. 26th and 27th September, 2019 FEMAS-2019, GNIT, Sodepur, Kolkata.
2. 23-11-2020 To 27-11-2020, Energy Engineering, NIT, Agartala.
3. 30-31 th December 2020 , Solar power development -issues and challenges by CBI&P, New Delhi.

FDP/STC organized

1. “Smart Energy Systems for Rural and Urban Development” sponsored by TEQIP-III, MHRD, GOI, and jointly organized by NIT Agartala (Tripura) and VNIT Nagpur (Mah.), 2-6th December 2019, Coordinators :Dr. Arvind Kumar Jain and Prof. Priyanath Das .
2. Intellectual Property Management at early stage of Innovation & Start-ups,21-26th February ,2022,Coordinators :Prof. Priyanath Das and Dr. Arup Ratan Bhowmik.

