

Faculty Profile

1. Name: Dr. Deoraj Kumar Tanti

2. Department: Electrical Engineering

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5. Office Address: Department of Electrical Engg., BIT Sindri, Dhanbad, Jharkhand - 828123



6. Qualification:

S. No	Degree(UG, PG, PhD)	Specialization	Institute
1	B.Sc. Engg.	Electrical Engg.	M.I.T. Muzzafarpur
2	M.Sc. Engg.	Control System	B.I.T. Sindri
3	Ph.D.	Power Quality & Control	B.I.T. Sindri

7. Area of Specialization: Power System

8. PhD (Guided): Enrolled 02 Scholars

9. Subjects Taught:

I) UG: - Basic Electrical Engg., Network Theory, Signals & Systems , Electrical Machine I, Electrical Machine II.

II) PG:- Modern Control System, Non Linear Control System.

10. Teaching Experience: 31 Years

Sl. No.	Position held	Name of Organization	of from	to
1	Assistant Professor (Re-designated as Lecturer in 5 th Pay Scale) in Electrical Engineering.	B.I.T.Sindri	26.02.1993	25.02.1999
2	Lecturer (Sr. Scale)	B.I.T.Sindri	26.02.1999	25.02.2003
3	Lecturer (Selection Grade)	B.I.T.Sindri	26.02.2003	25.02.2006
4	Associate Professor	B.I.T.Sindri	26.02.2006	10.08.2014
5	Professor	B.I.T.Sindri	11.08.2014	to till date

11. Details of Paper Publications

I) International Journals:

Sl. No.	Title with Page Nos.	Journal	ISSN/ ISBN No.
1.	An ANN based approach for optimal placement of DSTATCOM for voltage	International Journal of Engineering Science and	ISSN: 0975- 5462

	sag mitigation, Vol. 3, No. 2, pp 827-835, February 2011	Technology (IJEST)	
2.	Optimal Placement of Custom Power Devices in Power System Network to mitigate Voltage Sag under Faults, Vol. 2, No. 3, pp 267-276, September 2012	International Journal of Power Electronics and Drive System (IJPEDS)	ISSN: 2088-8694
3.	Load Flow Analysis on IEEE 30 bus System, Vol. 2, Issue 11, pp1-6, Nov.2012	International Journal of Scientific and Research Publications	ISSN: 2250-3153
4.	Optimal Placement of Custom Power Devices in Power System Network for Load and Voltage Balancing, Vol. 3, Issue 3, pp 187-199, Oct.-Dec. 2012	International Journal of Electrical Engineering and Technology (IJEET)	ISSN: 0976-6545 (Print), ISSN: 0976-6553 (Online)
5.	Optimal Placement of DSTATCOM in an Indian Power System for Load and Voltage Balancing, Vol. 4, Issue 3, pp 63-74, May-June 2013	International Journal of Electrical Engineering and Technology (IJEET),	ISSN: 0976-6545 (Print), ISSN: 0976-6553 (Online)
6.	MATLAB Simulation of Temperature Control of Heat Exchanger using Different Controllers, Vol. 2 No. 1, pp 1-5, March 2014	Science Publishing Group: Automation, Control and Intelligent Systems	ISSN Print: 2328-5583, ISSN Online: 2328-5591
7.	Transient Stability of 11-bus system using SVC and improvement of Voltage Profile in Transmission Line using Series Compensator, 3(4), pp 76-85, August 2014	American Journal of Electrical Power and Energy Systems	ISSN: 2326-912X, (Print), ISSN: 2326-9200 (Online)
8.	Heart Rate Variability and its Association with Diseases, Vol. IV, Issue VIII, pp 161-167, Sept. 2014	VSRD International Journal of Electrical, Electronics & communication Engg.	e-ISSN: 2231-3346, p-ISSN: 2319-2232
9.	Fuzzy Control Scheme for Damping of Oscillations in Multi Machine Power System with UPFC. Vol. 4, Issue 7, pp 5785-5794, July 2015	International Journal of Innovative Research in Science Engineering & Technology	ISSN(Online):2319-8753 ISSN(Print): 2347-6710
10.	Temperature Control of Semiconductor LASER Using Different Controllers. Vol. 4, Issue 7, pp 5810-5818, July 2015	International Journal of Innovative Research in Science Engineering & Technology	ISSN(Online):2319-8753, ISSN(Print): 2347-6710
11.	An ANN based approach for optimal placement of custom power devices for harmonic reduction in an interconnected power distribution system network, Vol. 55, No. 8, pp-56-61, Aug. 2015	Electrical India, Chary Publications Pvt. Ltd., India	India's Oldest Magazine on Power and Electrical Products Industry (Established 1961)
12.	Comparative Performance Analysis for Two Tanks Liquid Level Control System with Various Controllers using MATLAB, Vol. 7, Issue 2, pp 345-352,	International Journal of Latest Trends in Engineering & Technology (IJLTET)	ISSN: 2278-621X

	July 2016.		
13.	Performance Analysis of Speed Control of Hybrid Electric Vehicle. Vol. 5, Issue 8, pp 15466-15474, Aug. 2016	International Journal of Innovative Research in Science, Engineering & Technology	ISSN (Online):2319-8753 ISSN (Print): 2347-6710
14.	Performance Analysis of Controllers for AGC and AVR in Two Area System, Vol. 04, Issue 09, pp 5809-5814, Sept. 2016	International Journal of Scientific Research and Education (IJSRE)	ISSN(e): 2321-7545
15.	A Modified Landsman Converter based Battery Charger for Electric Vehicle with Improved Power Factor. Vol.11, Issue 10, pp128-137, 2021.	Journal of Information and Computational Science (JOICS)	ISSN: 1548-7741

II) International Conference

Sl. No.	Title with Page Nos.	Conference Name
1.	Performance Enhancement of DFIG System Using PSO Based Optimized PID Controller. ICDSA Vol. I, 2021, pp 597-606, 10-11 April 2021	Proceedings of International Conference on Data Science and Application (ICDSA 2021)
2.	Linear State Estimation for Power Systems Based on PMU Measurements, pp 249-261	Intelligent Communication, Control and Devices, Advances in Intelligent Systems and Computing 1341, 2021
3.	Performance Analysis of Flying Squirrel Search Optimization Technique for MPPT in Photovoltaic System. ODICON Nov. 2022	2022 2 nd Odisha International Conference on Electrical Power Engineering, Communication and Computing Technology (ODICON 2022)
4.	“Performance Analysis of NN Controller Based Multiport Converter for EV Application.”	IEEE International Conference on Evolutionary Algorithms & Soft Computing Techniques (EASCT 2023), Organised by RV Institute of Technology & Management, J P Nagar, Bangalore, Karnataka, 20-21 October 2023
5.	“Application of Zebra Optimisation Algorithm for Solving Optimal Power Flow Issues”	21 st IEEE OITS International Conference on Information Technology (OCIT-2023) Organised by Department of Computer Science & Engineering, NIT Raipur India, 13-15 December 2023

III) National Conference / Seminar

Sl. No.	Title with page Nos.	Details of Conference publication	ISSN/ISBN No.
1.	Quality of Power: A Concern for Power Engineers and Consumers, pp 351-357.	National Workshop on Technological Challenges of 21 st Century - The Road Ahead, BIT, Sindri-828123, Feb. 8-9, 200	
2.	Effect of Resistance Switching on Transient Recovery Voltage in a Transmission System, pp 84-88.	National Conference on Problems, Practices and Prospects in Power Distribution System Operation and	ISBN: 93-80043-01-5

		Control (PPPPDSOC-2009) Punjab Engineering College, Chandigarh, Jan. 23-24, 2009	
3.	Mobile Phone Based ECG Monitoring System, pp 119-126.	National Seminar on Recent Advances on Information Technology (RAIT-2009), I.S.M. Dhanbad, Feb. 6-7, 2009	
4.	An ANN Based Approach for Optimal Placement of DSTATCOM and DVR in Power System for Voltage Sag Mitigation under Faults, pp 196-20.	Proceedings of National Conference on Artificial Intelligence and Agents Theory & Applications, IIT(BHU), Varanasi (UP), India, Dec. 9 -11, 2011	
5.	Reduction of Total Harmonic Distortion of an Interconnected Power System using Voltage Source Converter, pp 42.	National Seminar on Indian Nuclear Power Program: Challenges and Opportunities, BIT, Sindri, April 14-15, 2012	Publication of only abstract in Souvenir
6.	Reduction of Oscillation of Nuclear Power Plant by Unified Power Flow Controller, pp75.	National Seminar on Indian Nuclear Power Program: Challenges and Opportunities, BIT, Sindri, April 14-15, 2012	
7.	Solar Energy an Opportunity and Challenges to overcome Power Crisis in Rural India, pp 227-230.	National Seminar on Environmental Issues: Protection, Conservation and Management (EIPCM), BIT, Sindri, Feb. 26-27, 2016.	ISBN: 978-93-8577728-8

12. Symposium/ Workshop/Seminar/ Attended

Sl. No.	Title of Symposium/ Workshop/Seminar/ Short – term Courses	Date	Organizing Institute
1	National Workshop on Industry Institute Interaction (NWIII).	July 13-14, 2007	BIT Sindri (Dhanbad)
2	National Workshop on Technological Challenges of 21 st Century-The Road Ahead.	Feb. 8 - 9, 2008	BIT Sindri (Dhanbad)
3	National Seminar on Environment issue on Geotechnics & Mineral Industries.	April 4-5, 2008	BIT Sindri (Dhanbad)
4	National Conference on Problems, Practices and Prospects in Power Distribution System Operation and Control (PPPPDSOC-2009).	Jan. 23- 24, 2009	Punjab Engineering College, Chandigarh
5	National Seminar on Recent Advances on Information Technology (RAIT-2009).	Feb.6-7, 2009	I.S.M. Dhanbad
6	National Conference on Artificial Intelligence and Agents Theory & Applications.	Dec.9-11, 2011	IIT (BHU), Varanasi (UP), India
7	National Seminar on Indian Nuclear Power Program: Challenges and Opportunities.	April 14-15, 2012	BIT Sindri (Dhanbad)
8	National Seminar on Energy and Environment for Sustainability (ESS).	March 16-17, 2013	BIT Sindri (Dhanbad)
9	National Workshop on Intellectual Property Rights.	October 26, 2013	BIT Sindri (Dhanbad)
10	All India Seminar on Recent Advancement in Manufacturing and its Management (RAMM-14)	Feb. 07-08, 2014	BIT Sindri (Dhanbad)

11	National Seminar on Environmental Issues: Protection, Conservation and Management (EIPCM).	Feb. 26-27, 2016	BIT Sindri (Dhanbad)
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13. Administrative Position Held:

S. No.	Position Held	From (date/month/year)
1	Training & Placement Officer, BIT Sindri	08.07.2014 to 23.1.2017
2	Professor in Charge Electrical Machine Lab.	07.01.2003
3	Professor in Charge Electrical Engg. Society and Educational Tour	07.01.2003
4	Account Officer, BIT Sindri	04.04.2007
5	Nodal Officer Finance, TEQIP, BIT Sindri	05.04.2007
6	PG Coordinator, Electrical Engineering Deptt.	27.08.2013
7	Asstt. Hostel Superintendent Hostel No. 19	01.09.1993
8	Hostel Superintendent Hostel No. 9	07.01.1996
9	Hostel Superintendent Hostel No. 8	01.08.2003
10	Hostel Superintendent Hostel No. 10	01.02.2004
11	Hostel Superintendent Hostel No. 11	16.10.2006
12	Hostel Superintendent, PG Hostel	04.06.2011
13	Host Superintendent, Hostel No. 20 (Girls Hostel)	30.11.2015
15	Prof. in-charge, Training	16.4.2018
16	PG Coordinator	20.8.2018
17	Prof. in charge Substation	January 2017 to February 2019
18	Head, EED	13.02.2019 to 31.08.2021
19	Superintendent, Hostel No. 24	April 2022 to January 2024
20	Superintendent, Hostel No. 25	January 2024 to till date
21	Dean (Academic)	September 2023 to till date

14. Training/Course Attended:

Sl. No.	Training Program/ course	Duration	Organized by
1.	Lab-VIEW Basics	10.07.2006 to 14.07.2006 (One week)	PSG College of Technology, Coimbatore
2.	Blue Print for Success	29.08.2006 to 31.08.2006 (Three days)	Qualified Learning Systems Co. Inc. (USA) sponsored by Govt. of Jharkhand, Ranchi.
3.	Finance for Non-finance Executives	13.11.2006 to 17.11.2006 (One week)	X.L.R.I., Jamshedpur
4.	Application of MATLAB and Toolboxes for Real time Solutions	21.04.2007 to 22.04.2007 (Two days)	BIT Mesra, Ranchi
5.	Certified PLC Programmer (CPP)	07.04.2008 to 12.04.2008 (One week)	By Prolific System & Technologies Pvt. Ltd. At BIT Sindri
6.	Programmable Logic Controller (PLC)	07.07.2008 to 11.07.2008 (One week)	N.I.T.T.R., Kolkata

7.	Pedagogy	10.08.2008 to 14.08.2008 (One week)	B.I.T., Sindri
8.	Intellectual Property Rights (IPR)	13.09.2008 to 14.09.2008 (Two days)	B.I.T., Sindri
9.	Pedagogy II	14.10.2008 to 19.10.2008 (One week)	B.I.T., Sindri
10.	Digital Signal Processing (DSP)	20.10.2008 to 24.10.2008 (One week)	N.I.T.T.T.R., Kolkata
11.	Project Management	24.11.2008 to 28.11.2008 (One week)	X.L.R.I., Jamshedpur
12.	Performance Enhancement Skills	23.07.2012 to 03.08.2012 (Two week)	B.I.T., Sindri

15. Members of Professional Bodies: I.S.T.E. (Life Member), IEEE