

Faculty Profile



1. **Name:** Dr. Upendra Prasad
2. **Department:** Electrical Engineering
3. **Email id:** uprasad.ee@bitsindri.ac.in
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4. **Phone Number:** 7979892998,9430771335
5. **Office Address:** Electrical Engg. Dept., BIT Sindri, Dhanbad, Jharkhand
Pin - 828123

6. Qualification:

S. No	Degree(UG, PG, PhD)	Specialization	Institute
1.	PhD	Electrical power & control System	VBU Hazaribag
2.	M Sc. Engg	Electrical Power System	Ranchi University
3.	B Sc. Engg	Electrical Engg	Bihar University Muzaffarpur

7. **Area of Specialization:** Electrical Power System

8. **PhD (Guided):** 02

9. **Subjects Taught:** BEE, Instrumentation, Power System, Electrical Machines, Computer programming in C.

I) UG Project Guidance:-150

II) PG Project Guidance :-22

10. Professional Experience:

I) Teaching Experience:

Sl. No.	Position held	Name of Organization	from	to
1.	Professor	BIT Sindri	20.03.2013	Till Date

Sl. No.	Position held	Name of Organization	from	to
2.	Associate Professor	BIT Sindri	01.01.2006	19.03.2013
3.	Assistant Professor	BIT Sindri	30.05.2002	31.12.2005
4.	Sr. Lecturer	BIT Sindri	30.05.1998	29.05.2002
5.	Assistant Professor	BIT Sindri	22.02.1993	29.05.1998
6.	Part Time Lecturer	BIT Sindri	13.01.1989	21.01.1992

11. Publications:

International Journal			
Sl. No.	Title with Page Nos.	Journal	ISSN/ ISBN No.
1.	Performance Comparison of Solid State and Incandescent Based Cap Lamp for Underground Coalmines	International Journal of Engineering Science and Technology (IJEST) Vol.3 No.3 Page 2514-2518. March 2011	ISSN: 0975-5462
2.	Modeling of Single Phase UPFC without DC Capacitor	International Journal of Engineering Science and Technology (IJEST) Vol.3 No. 5 May-2011 Page 3732-3738.	ISSN: 0975-5462
3.	Performance Comparison of Different LED Driver	International Journal of Engineering Science and Technology (IJEST) Vol.3 No. 6 June-2011 Page 5090-5098.	ISSN: 0975-5462
4.	To Estimate the Fault in Transmission Line Using HAAR FUNCTION	International Journal of Engineering Science and Technology (IJEST) Vol.3 No. 8 August-2011 Page 6564-6570.	ISSN: 0975-5462
5.	Design and Analysis of a Power System Incorporating a Unified Power Flow Controller	International Journal of Material Science and Electronics Research (IJMSER), Volume 3, Number 1, January-June 2012, Page 9-21	ISSN: 0976-6111

6.	Study the Power Flow Control of a Power System with Unified Power Flow Controller,	International Journal of Power Engineering, Volume 4, Number 1, June 2012,Page 1-11	ISSN: 0975-380X
7.	Design and analysis of buck boost converter based LED Drive for Enhancing the stability	Journal Of Electrical Engineering, Volume-12/2012, Edition-3, Page 117-124	ISSN: 1582-4594, 2012, Impact factor: 0.9670, courtesy www.jifactor.com
8.	Design of a PWM Based Buck Boost DC/DC Converter with Parasitic Resistance suitable for LED Based underground Coalmines Lighting System	International Journal of Electrical Engineering and Technology Volume 3, Issue 3, October-December 2012, Page 175-186	ISSN: 0976 6545 (print), 0976 6553 (online), Impact factor 3.2031, courtesy www.jifactor.com
9.	Modeling and Simulation of Buck Boost DC-DC Converter with High Stability for Low Power Application	VSRD International Journal of Electrical, Electronics & Communication Engineering Page No. 679-686 Vol.2(9) 2012	ISSN No 2231-3346 (online), 2319-2232 (print)
10.	Ripple analysis and Simulation of PWM based Asynchronous buck converter in continuous conduction mode for Low Power Application	VSRD International Journal of Electrical, Electronics & Communication Engineering Page No. 875-877, Vol. 2 (11) 2012	ISSN No 2231-3346 (online), 2319-2232 (print)
11.	Analysis and simulation of CFL Ballast circuit with MOSFET and IGBT based inverter	IJERT, Volume 2, issue 9 September 2013, Page No. 684-689	ISSN:2278-0181
12.	Design and analysis of vehicle information and tracking system	IJECT Volume 5, ISSUE 1, Jan –March 2014, Page No. 18-25	ISSN: 2230-7109(Online) , ISSN :2230-9543(Print)
13.	Automatic Railway crossing system	IJEEE Volume 3, Issue 4 July 2014, pp. 17-22	ISSN(P): 2278-9944; ISSN(E):2278-9952,
14.	A Vision of energy meter through GSM based communication	IJECE Volume 3 , Issue 5 September 2014, 23-26	ISSN (P):2278-9901;ISSN(E):2278-991X
15.	Reactive Power Dispatch Problem using Particle Swarm	International Journal of Innovative Research in	ISSN: 2319-8753

	Optimization Algorithm	Science, Engineering and Technology (IJIRSET) Page No. 6435-6440 Vol. 4, Issue 7, July 2015	
16.	Design and Fabrication of Temperature based DC Fan Speed Control System using Microcontroller and Pulse Width Modulation Technique	International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET) Page No. 5719-5727, Vol. 4, Issue 7, July 2015	ISSN (online).2319-8753
17.	Voltage compensation in Distribution networks	International Journal of Engineering Trends and Technology (IJETT) Vol-30, No-8, 2015, Page No 420-427	ISSN: 2231-5381
18.	Application of Superconducting Fault Current Limiters in Smart Grid System	International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET) Page No. 5738-5747, Vol. 4, Issue 7, July 2015	ISSN (online) 2319-8753
19.	Solving reactive power dispatch problem using evolutionary computational algorithm	Springer science +business media Singapore-2016, N.R. Shetty et al.(eds), Emerging research in computing information, communication and application. Page 469-481	DOI 10.1007/978-981-10-0287-8_44
20.	Switched capacitor inverter using series/parallel conversion in open loop with active filter	International Journal of Innovative Research in Science, engineering and technology Volume 5, Issue 8 August 2016. Page 111-119	ISSN (Online):2319-8753
21.	Investigation of Quantum Dot controlled Not Gate	International Journal Of Innovative Research	ISSN (Online):2319-8753

		in Science, Engineering and technology Volume5, Issue 9, September 2016. Page 15939-15946	
22.	Comparative analysis of integer order and fractional order PID controllers for LFC in two area interconnected system	IJIRT, Volume 3, Issue 6, November 2016, Page 294-299	ISSN: 2349-6002
23.	Vibration Control of Car Suspension System Using Different Controllers	International Journal of Advance Research in Science and Engineering Page No. 499-509, Vol. No. 6, Issue No. 04, April 2017	ISSN(O) 2319-8354 ISSN(P) 2319-8346.
24.	Design of Micro strip Patch Antenna for Gain Enhancement	International Journal of Electrical and Electronics Engineers Page No 921-935, Vol. No. 9, Issue No. 01, January-June 2017	ISSN (O) 2321-2055 ISSN (P) 2321-2045
25.	Upgradation of an existing HVDC system into a hybrid ac/dc high power transmission system using various new techniques	International journal of advance research in science and engineering, Vol-6, issue no-8, Page No 1343-1351 August-2017	ISSN (O): 2319-8354, ISSN(P): 2319-8346
26.	Power Quality Improvement using PID Controller Based RPC for High Speed Railway Traction	International Journal of Engineering and Techniques – Volume 4, Issue 4, July – Aug 2018	ISSN: 2395-1303 Page 48-56
27.	A Advanced Methodology for Automated Power Theft Detection	International Journal of Research in Electronics and Computer Engineering, Volume 6, Issue 3, July – Sept 2018	ISSN: 2393-9028 (Print) ISSN: 2348-2281 (Online), Pages 527-530
28.	A Negative Sequence Compensation Using PID Controller Based RPC in High Speed Railway Traction	MAT JOURNALS, Journal of Control System and Control Instrumentation Volume 4 Issue 2, Page	

		1-14, 2018	
29.	Simulation and Analysis on Photovoltaic Solar Power System	International Journal of Electrical Engineering and Technology (IJEET), Volume11, Issue 6, August 2020, pp. 34-41	ISSN Print: 0976-6545 and ISSN Online: 0976-6553, IAEME Publication Scopus Index.
30.	Speed Control of Three-Phase Induction Motor Using Switching Table-Based Direct Torque Control Technique	(IJARET), Volume 11, Issue 9, September 2020, pp. 296-304	ISSN Print: 0976-6480 and ISSN Online: 0976-6499, IAEME Publication Scopus Index.

National Journal

Sl. No.	Title with Page Nos.	Journal	ISSN/ ISBN No.
1.	Megawatt - Frequency control of an Isolated Power System	Electrical India Journal - 30 th June -1997	
2.	A Case Study of Small Power System Risk Index Computation	Electrical India Journal -30 th June -1998	
3.	A comparative study “Controllers for Automatic Generation Control”	Electrical India Journal-31 st Oct-1999.	
4.	Efficient Lighting System for Underground Coal Mines using LED	Journal of Institution of Engineers India (Min) Volume 91, August-2010	ISSN 0257-442X
5.	Photometric Characteristics of Led Based Cap lamp for Underground Coalmines	Journal of Engineering Science & Management Education Vol-4 Issue-III July-Sept 2011 NITTR Bhopal	ISSN : 0976-0121
6.	Comparative Analysis of Speed Control of Induction Motor Using MPCC and FOC	Journal of Gujarat Research Society UGC-CARE List Group: Group D, Volume 21 Issue 7, November 2019,	, ISSN: 0374-8588

International Conference

1.	Copper-Loop Management in a Digital Environment:	International Seminar at Kalinga Institute of	
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	Migration from an analog to a digital local loop network	Technology, Bhubaneswar Odisha ICET-2003.	
2.	A Novel PC-Based Cure Monitoring Process for Batch Production of Rubber Hose, V-Belts & Conveyor Belts	International Conference on “Emerging Trends in Electrical Engineering”, Jadavpur University, Kolkata, 12-14 January 2007	
3.	Electrical Energy Conservation and Losses Management of Rotating Electrical Machines Used in Underground Coal Mines	Ninth International Mine Ventilation Congress, New Delhi, India, 10-13 NOV 2009.	
4.	Review of LED Based Cap Lamps for Underground Coalmines to Improve Efficiency as Compared to Other Light Sources	2 nd International Conference on Computer and Automation Engineering (ICCAE 2010) Feb 26-28, 2010, Singapore	
5.	Energy Efficient Solar CFL Lighting System using MOSFET Based High Frequency Inverter for Remote Areas	2 nd International Conference on Computer and Automation Engineering (ICCAE 2010) Feb 26-28, 2010, Singapore	
6.	Haul Roads Lighting System for Open Cast Mine using Green Energy	International Multiconference of Engineers and Computer Scientists 2012 Hong Kong 14-16 March, 2012, Pages 987-990	ISBN:978-988-19251-9-0 ISSN:2078-0958
7.	PSO based Optical Reactive Power Dispatch for the enrichment of power system performance	Conference Proceedings of Electric power and renewable energy conference (EPREC-2020) May 29-30, 2020 Springer, NIT JSR.	

8.	Application of a Novel Political Optimization in Optimal Parameter Design of PI Controller for the BLDC motor Speed Control	International Conference on Emerging Frontiers in Electrical and Electronics Technologies (ICEFEET) 10-11 July 2020, NIT Patna.	
9.	BAT algorithm based Optimal Power Flow for a Power System consisting of Wind Power plant and Static VAR Compensator	Michael Faraday IET International Summit-2020 (4 th MFIS) October 03-04, 2020 Kolkata, India.	
National Conference/Seminar			
1.	Microprocessor Based Robotic Arm Control for An Assembly Task	National Conference on Operation Research & Information Technology April 2-3, 2000 Agra	
2.	On Line Quality Control In Steel Making Industry Using Design of Experiments	WCMS 18-19 August-2000 JHANSI (UP).	
3.	Application of Expert System in a multistage manufacturing System	Nation Seminar on MECHATRONICS, B.I.T MESRA-2000	
4.	Genetic Algorithm as a powerful Optimization Technique	National Seminar on computer application in Metallurgy, B.I.T. Sindri Dec-2002.	
5.	Effective Energy Management and Energy Auditing	National Seminar "Emerging Trends in Energy Conservation and Management" NOV 11-12, 2005 I.I.T. Roorkee	
6.	Microprocessor Based Intelligent Process Control of Vulcanization of steel cored	National Seminar on "Recent Advances in theoretical and applied	

	Belt Conveyor.	seismology”, March 2006 I.S.M. Dhanbad.	
7.	Online monitoring and Actuation for Production of Rubber Hose, V-Belts & Conveyor Belts,	National Seminar on Condition monitoring, Overview and advanced techniques, Sept-2006 at I.S.M. Dhanbad.	
8.	Smart Sensor Embedded Hard Time Demand Actuation for Autoclaving of Rubber Based Products	National Seminar on Recent Advances on INFORMATION TECHNOLOGY (RAIT-2007), Feb 26-27,2007 at I.S.M. Dhanbad.	ISBN 81-8424-178-X.
9.	Productivity Enhancement in Greenhouse cultivation by microcontroller based system,	Energy and environment for sustainability, EES-2013, page no 106-108. B.I.T. Sindri March 16-17, 2013	
10.	The optimal reactive power dispatch using particle swarm optimization algorithm	National seminar on EIPCM, BIT SINDRI, Page 241-247	ISBN: 9789385777288.
11.	Differential evaluation algorithm for optimal reactive power dispatch.	National; seminar on EIPCM, BIT SINDRI, Page 248-254	ISBN: 9789385777288
12.	Green energy sources for green environment	National seminar on EIPCM, BIT SINDRI, Page 220-226	ISBN : 9789385777288

12. Symposium/ Workshop/Seminar/ Attended

S No.	Training Program/ Course	Organized by	Duration
1.	Digital Electronics & Applications of Microprocessors	I.S.M Dhanbad AICTE-ISTE	Two weeks 05.12.1994- 17.12.1994
2.	Physics & Technology for Energy Conversion & Refrigeration Using Thermo	I.I.T. Kharagpur	One week 24.02.1997-

	electricians	AICTE-ISTE	01.03.1997
3.	Induction Training Programme	A.M.U. Aligarh AICTE-ISTE	Three weeks 11.05.1998- 30.05.1998
4.	Power System Stability and Control	I.I.T. Kanpur AICTE-ISTE	One week 14.09.1998- 19.09.1998
5.	Recent Trends in Electronics Instrumentation Systems	M.I.T. Muzaffarpur AICTE-ISTE	Two weeks 05.10.1998- 16.10.1998
6.	Productivity & Prosperity through Safety Engg. & Management	B.I.T. Sindri AICTE-ISTE	Two weeks 31.03.2001- 12.04.2001
7.	Geo-Mining Applications in Mining & Allied Areas	B.I.T. Sindri AICTE-ISTE	Two weeks 29.10.2001- 10.11.2001
8.	Some Aspects of Modelling & Simulation of Electrical Systems	R.I.T. Jamshedpur AICTE-ISTE	Two weeks 24.12.2001- 06.01.2002
9.	Modern Optimisation Techniques in Power System	U.C.E. BURLA AICTE-ISTE	Two weeks 19.12.2005- 31.12.2005
10.	Human Resource Development	XLRI Jamshedpur TEQIP SPONSORED	One week 19.09.2006- 22.09.2006
11.	Basic Leadership Skills	XLRI Jamshedpur TEQIP SPONSORED	One week 06.11.2006- 10.11.2006
12.	Human Resource Development	XLRI Jamshedpur TEQIP SPONSORED	Four Days 19.09.2006- 22.09.2006
13.	E-Learning	College of Engg, Pune-5 TEQIP NPIU & SPFU	Two Days 17.01.2006- 18.01.2006
14.	Content Development in e-Learning	B.I.T. MESRA TEQIP	Two Days 03.04.2006- 04.04.2006
15.	Blue Print For Success	Ranchi TEQIP	Three Days 29.08.2006- 31.08.2006

16.	LabVIEW Basics National Instruments Systems (India) Pvt. Ltd., Bangalore	PSG College of Technology, Coimbatore	Five Days 10.07.2006-14.07.2006
17.	Services to Community & Economy	B.I.T Sindri TEQIP	Two weeks 11-06-2007-25-06-2007
18.	Industry Institute Interaction (NWIII)	B.I.T. SINDRI TEQIP & SPFU	Two Days 13.07.2007-14.07.2007
19.	Geotechnics & Mineral Industries	B.I.T. SINDRI TEQIP & SPFU	Two Days 04.04.2008-05.04.2008
20.	Programmable Logic Controller & Supervisory Control and Data Acquisition	B.I.T. SINDRI TEQIP SPONSORED	One week 07.04.2008-12.04.2008
21.	Programmable Logic Controller (PLC)	NITTTR KOLKATA AICTE-MHRD	One week 07.07.2008-11.07.2008
22.	Alternate Energy Sources	NITTTR Chandigarh AICTE-MHRD	One week 18.08.2008-22.08.2008
23.	Pedagogy – II	B.I.T. SINDRI TEQIP SPONSORED	One week 14.10.2008-19.10.2008
24.	Basic Leadership Skills	XLRI Jamshedpur TEQIP SPONSORED	One week 20.10.2008-24.10.2008
25.	Management Capacity Development Training Programme	MDI GURGAON TEQIP SPONSORED	One week 09.02.2009-14.02.2009
26.	Ethics and Values In Science	ISM DHANBAD DST GOVT OF INDIA	One week 12.12.2011-16.12.2011
27.	Intellectual Property Rights	B.I.T. SINDRI	One Day 26.10.2013
28.	Faculty Development Programme on ICT Skills for Teachers	B.I.T. Sindri AICTE-MHRD	One week 19.06.2017-24.06.2017
29.	Role of Technical Institutions in	NITTTR	Two weeks

	Implementation of Community Development Programme	KOLKATA AICTE-MHRD	28.06.2017- 07.07.2017
30.	Action plan : Incorporation of AICTE mandates	B.I.T. MESRA TEQIP -III	Two Days 18.9.2017- 19.9.2017
31.	TEQIP III NPIU sponsored Awareness Workshop on Outcome – based Education (OBE)	BIT Sindri	2 Days 16 – 17 March, 2018
32.	Sc & T of Special Steel and Nanomaterials	B.I.T. SINDRI	Two Days 17-18 Feb, 2018
33.	Active Learning	IIT Gandhi Nagar	Five days 18-22June, 2018
34.	Equity Action Plan(EAP)	SPIU ODISHA	One day 30 Nov, 2018
35.	National Workshop on NBA and NAAC Accreditation	Engineering Staff College of India	Five days 18-22 June 2019
36.	Review meeting and Training on “Goods and consultancy Procurement as per the Word Bank Guidelines”	SPIU Uttar Pradesh	Two days 17-18 Dec 2019
37.	ICT Tools for Teaching, Learning Process & Institutes	B.I.T SINDRI	Five days 13 th -17 th Jan,2020
38.	National Webinar on Virtual Lab	SPIU Uttar Pradesh	One day 16 Apr 2020
39.	International online Webinar on “Art of Online Teaching, research Paper Writing & Patent Registration”	Institute of Technology & Management, Nanded, India	Three days 18-20 May 2020
40.	Entrepreneurship (Idea to Business Plan, Business Skills for Entrepreneurs, Startup to IPO)	B.I.T Sindri (Department of Higher, Technical Education & Skill Development Govt. of Jharkhand	Six weeks 6 th May- 24 th June,2020
41.	FDP for Engineering Colleges on Virtual Labs	Jharkhand Education Grid, RUSA, JUT, BIT Sindri & NIT Suratkal	One day 29 th June,2020
42.	FDP on “Grid Integration of Hybrid	DEC	Three day

	Renewable Energy”	Dumka	29 th June – 1 st July,2020
43.	Mindful Leadership	IIM Bodh Gaya	Five days 1 st – 5 th Feb,2021
44.	Conference on “Opportunities and Challenges in Professional Education in Jharkhand State and the Role of Jharkhand University of Technology”	JUT & SPIU Ranchi	6 th – 7 th March,2021

13. Administrative Position Held:

S. No.	Position Held	From	To
1.	Nodal Officer, Government Professional College, Jamshedpur	2020	2022
2.	Member Expert Visit Committee, WRO-Mumbai	2021-2022	
3.	Member Expert Visit Committee, ERO-Kolkata	2018,2019	
4.	Member Secretary, Small Industry Training and Development Organization, BIT Sindri	April-2021	Continue
5.	Member, Affiliation Committee, JUT Ranchi	May-2019	
6.	Member, EE Departmental Purchase committee	June-2020	Continue
7.	Member, Course Curriculum Revision, State Technical Education Board, Ranchi	July-2018	Continue
8.	Member, Faculty Promotion Committee	August-2018	Continue
9.	Chief Counselor and Secretary, Staff Council	July-2017	Continue
10.	Principal Coordinator TEQIP-III	April-2019	Till date
11.	Principal Co Coordinator, TEQIP-III	Feb-2017	March-2019
12.	Dean Academic	Oct-2018	Till date
13.	Prof-in-Charge, Post Graduate	Feb-2018	Sept-2018
14.	Chief Warden	July-13	June-15

15.	HOD Electrical Engineering Department	Apr-2013	Jan-2017
16.	Coordinator, Quality control, Dept of Sc& Tech Govt of Jharkhand, Ranchi	Feb – 2009	Dec-2011
17.	Hostel Superintendent Hostel No-25	July - 2009	June-2012
18.	Hostel Superintendent Hostel No-16	Sept - 2007	August-2011
19.	Hostel Superintendent Hostel No-12	Oct - 1994	Sept.-1997
20.	Assistant Hostel Superintendent Hostel No-14	Sept - 1993	Aug.-1995
21.	Prof-in –Charge, Electrical Workshop	Jan - 2003	Dec-2010
22.	Prof-in –Charge, Electrical Sub-Station.	Jan - 2003	Dec-2010

14. Members of Professional Bodies:

1. Life Member of “*Indian Society for Technical Education (ISTE)*,” LM 14125.
2. Fellow Member of “*Institution of Engineers (INDIA)*”(F-114437-1).
3. Member of “*Computer Society of India*” Memb. No : F8003800.