

PROFILE



Dr. SWATI LAVAND

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PROFESSIONAL QUALIFICATION

Sr. No.	Degree	Program/Specialisation	University	Year of Passing
1.	B.E./B.Tech.	Electrical Engineering	Govt. Engg. College Karad, Shivaji University	1998
2.	M.E./M.Tech.	Electrical Power System	Govt. Engg. College Karad, Shivaji University	2004
3.	Ph.D.	Electrical Engineering	IIT Bombay	2017

EXPERIENCE

Sr. No.	Organisation	Duration
1.	Sardar Patel College of Engineering, Andheri	2005 till Date
2.	Vibha Enterprises (Control Panel Manufacturer)	2002 to 2004
3.	St. Francis Institute of Technology, Mumbai	2001 to 2002
4.	Government Polytechnic, Karad	1999 to 2000

PROFESSIONAL MEMBERSHIP

Sr. No.	Name of professional society	Membership ID
1.	Institute of Engineering & Technology (IET)	1100552579

PAPERS PUBLISHED

International Journal

Sr. No.	Authors	Title of paper	Publisher	Year
1.	S.A. Lavand & S.A.Soman	Predictive Analytic to Supervise Zone 1 of Distance Relay using Synchrophasors	IEEE Transactions on Power Delivery	Aug. 2016

International Conference

Sr. No.	Authors	Title of paper	Publisher	Year
1.	Royden F., Yogesh B., M.S.S. Rao, Lavand S.A., Soman S.A.	Anomalous data detection for short term load forecasting	26 th European Conference on Operational Research Forecasting Stream	2013
2.	S. A. Lavand, G. Gajjar, R. Gajbhiye and S. A. Soman	Mining Spatial Frequency Time Series Data for Event Detection in Power Systems	IET International conference on Developments in Power System Protection., Edinburgh	March 2016
3.	S. A. Lavand and S. A. Soman	Local Supervision of Distance Relay using Hodrick-Prescott Filter	20 th Power Systems Computation Conference, Dublin, Ireland.	June 2018
4.	Pratiksha Urkude and S.	SVM based Event Detection Algorithm using PMU	5 th IEEE International conference on Electrical,	Nov. 2018

	A. Lavand	measurements	Electronics and Computer Engineering, Gorakhpur, India,	
5.	Vidushi N., Sanjana K., Aniket P., Pavan G., and S. A. Lavand	Identification of Distance Relays Vulnerable to Power Swing in Power System	IEEE International conference on Recent Innovations in Electrical, Electronics and Communication Engineering, NIT Bhubaneswar, India	July 2018
6.	Ayyaj Maner and S. A. Lavand	Fault Location Estimation of High Voltage Transmission Line using Disturbance Record	1st IEEE International conference on Power, Energy, Control Transmission Systems, Chennai, India	Feb. 2018
7.	Shraddha Jadhav, S. A. Lavand, Gopal Gajjar	Wide Area Measurement System based Frequency Data Mining for Event Detection in Power System	8th International Conference on Power Systems, MNIT Jaipur, India	2019

National Journals

Sr. No.	Authors	Title of paper	Publisher	Year
1.				

National Conference

Sr. No.	Authors	Title of paper	Publisher	Year
1.				

WORKSHOP / COURSES ATTENDED

Sr. No.	Name of the Course	Name of Organising Institute	Dates	Duration
1	AICTE-ISTE approved STTP under TEQIP 'on 'Power Quality'	Shri Sant Gajanan Maharaj College of Engineering	11th -15th Dec 2006	One Week
2	Training on 'Low Voltage Switchgear Maintenance-combine (LVSM-C)	L&T Switchgear Training Centre, Pune	28/05/2007 to 01/06/2007	One Week
3	AICTE-ISTE Approved STTP on 'Light Sources-Control and Applications'	MIT- Pune	10th -14th Dec 2007	One Week
4	AICTE approved STTP under QIP on 'Analysis of Modern Power Systems'	Indian Institute of Science, Bangalore	16th -20th March 2009	One Week
5	ISTE Approved STTP on 'Journey of Machines from Materials to Applications'	Sardar Patel College of Engineering, Andheri	22nd -26th June 2009	One Week
6	ISTE Approved STTP on 'Electromagnetic Waves and its Applications '	Sardar Patel College of Engineering, Andheri	15th -19th June 2009	One Week
7	Modular Training Programme on 'Numerical Protection of Power Systems'	CEPT University & BVM College Gujarat	27th - 31st Dec 2010	One Week

8	Digital Protection of Power System	CE & QIP at IIT Bombay	Jan-Apr.2012 (16 weeks)	Equivalent to 2 Weeks
9	STTP on “MEMS: Design, Fabrication and Characterization”	Sardar Patel College of Engineering, Andheri	4 th to 8 th Jan.2016	One Week
10	“FDP for improved competency and Institutional Management Capacity Enhancement” under TEQIP II	Sardar Patel College of Engineering, Andheri	21 st & 22 nd March 2017	2 days
11	TEQIP II sponsored Faculty Development Program under Twinning	Sardar Patel College of Engineering, Andheri	29 th Oct. to 2 nd Nov. 2018	One Week
12	Scientific Computing with Python for Electrical Engineers	CE & QIP at IIT Bombay,	11 th to 15 th Feb. 2019	One Week
13	MATLAB Programming for Numerical Computation	NPTEL co-ordinator: IIT Madras	Jan-Mar 2019 (8 weeks)	Equivalent to One Week
14	QIP, AICTE sponsored short term course on “Engineering Optimization”	CCE at IISc Bangalore	15 th to 19 th July 2019	One Week
15	MHRD-TEQIP-III KITE sponsored Teachers Enrichment Workshop on “Linear Algebra and its Applications to Data Analysis and Control”	IIT Bombay	18 th to 23 rd Nov. 2019	One Week

WORKSHOP / COURSES CONDUCTED

Sr. No.	Organizer	Title	Year
1.	with CEP IITB	One week Workshop on Practical Optimization for	Jan 2020

		SPCE faculty under TEQIP III	
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ONLINE COURSES

Sr. No.	Organizer (AICTE/ Swayam / NPTEL / Coursera)	Title	Year
1.	NPTEL (IIT Madras)	MATLAB Programming for Numerical Computation	2019

CONFERENCE ATTENDED

Sr. No.	Organizer	Title	Year
1.	IET, Scotland	IET International conference on Developments in Power System Protection., Edinburgh	2016
2.	COEP, Pune	7th International Conference on Power Systems (ICPS 2017)	2017

CONFERENCE ORGANIZED

Sr. No.	Organizer	Title	Year
1.			

EVENTS ORGANIZED

Sr. No.	Organizer	Title	Year
1.			

PROJECTS GUIDED

PG Level

Sr. No.	Title of project	Year	Status (Completed/ Ongoing)
1.	Power System Oscillation Mode Identification using WAMS	2020-21	Ongoing
2.	Microgrid Protection	2020-21	Ongoing
3.	Design, Simulation & Analysis of Six-Pulse Thyristor based Rectifier using Digital Controller	2019-20	Completed
4.	WAMS based Frequency Data Mining for Event Detection in Power System	2018-19	Completed
5.	Short circuit Analysis & Relay Coordination using ETAP	2018-19	Completed
6.	Fault Location Estimation for High Voltage Transmission Line	2017-18	Completed
7.	SVM based Event Detection Algorithm using PMU Measurements	2017-18	Completed
8.	Dynamic Security Assessment	2016-17	Completed

Ph.D. Level

Sr. No.	Title of thesis	Year	Status (Completed/ Ongoing)
1.			

SUBJECTS TAUGHT

Sr. No.	Name of subject	UG/ PG
1.	Design, Management & Audit of Electrical Systems	UG
2.	Power System I, II	UG
3.	Power System Protection	UG

4.	Advanced Techniques of Power System Protection	UG
5.	Power Plant Engineering	UG
6.	Numerical Techniques	UG
7.	Electrical Network	UG
8.	Audit Course on ETAP & WAMS	UG

ACHIEVEMENT

Sr. No.	Type of achievement	Year
1.	POSOCO Power System Award by Power System Operation Corporation Ltd. (under Ministry of Power) & IIT Delhi for the PhD research	2018
2.	Patent published on ‘ Method and system predicting power swing and detecting event during power swing in transmission line.’ by S. A. Lavand & S. A. Soman No. 201721002019 A’ in/writereaddata/Portal/IPhttps://ipindia.gov.OJournal/1_4819_1/Part-3.pdf	2019

DEPARTMENTAL AND INSTITUTIONAL RESPONSIBILITIES

Sr. No.	Type of responsibility	Department / Institute	Year
1.	Development of L &T – SPCE Switchgear Lab	Department	2009
2.	S/W procurement ETAP, MATLAB & Wide Area Measurement Systems (WAMS)	Department	since 2009
3.	Member, F.E. Admission Committee	Institute	2006-11
4.	Member, NBA Accreditation Committee	Institute	2009-10
5.	Member, Subject Board	Department	2016-18, 2020-21
6.	Member, Exam Committee	Institute	2016- 18

7.	Member, Building & Works Committee	Institute	2016- 18
8.	Member, Mentorship Committee	Department	2019 till date

INDUSTRIAL TRAINING ATTENDED

Sr. No.	Organizer	Title	Year
1.	L&T Switchgear Training Centre, Pune	Training on 'Low Voltage Switchgear Maintenance-combine (LVSM-C)	2007

INDUSTRIAL TRAINING ORGANIZED

Sr. No.	Organizer	Title	Year
1.	in collaboration with EED IITB	3 days' workshop on Power System Analysis for Reliance Industries	Aug. 2018
2.	in collaboration with EED IITB	3 days' workshop on Power System Protection for Reliance Industries	Sept. 2018

EXPERT LECTURE CONDUCTED / ORGANIZED

Sr. No.	Organizer	Title	Year
1.	Research scholar conclave, COEP Pune	Expert talk delivered on 'WAMS based analytics to supervise Distance Relay'	2017
2.	FDP at Fr. C. Rodrigues Institute of Technology, Vashi	Expert talk delivered on 'Reliability of Power system Protection'	2017
3.	EED,SPCE	Expert talk arranged on 'Sustainable Development' Speaker - Dr.Sanjay M.G., VJTI	Feb 2021

FUNDED RESEARCH PROJECT

Sr. No.	Funding agency	Title	Sanctioned amount	Duration with dates	Status (Completed / ongoing)
1.	TEQIP III	Seed money proposal on Numerical Relay Emulator	76,700/-	August 2020	Ongoing

REVIEWER

Sr. No.	Title of journal / conference	Year
1.	Springer Electrical Engineering (Journal)	2017 till date
2.	IEEE International Conference on Power System (ICPS)	2019
3.	IEEE International Conference on Nascent Technologies in Engineering (ICNTE)	2019

CONSULTANCY / TESTING / THIRD PARTY AUDIT

Sr. No.	Organizer	Type of consultancy	Year
1.			