

Dr. Sasidharan Sreedharan

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Few Words of Self Introduction

I am a passionate professor in electrical and computer engineering, with burning aspirations for research, consultancy, and training in electrical power/renewable energy. I have been associated with the industrial and academic sectors of various countries for the past 2 decades in various academic and administrative positions. After completing my basic education in India (B.Tech in Electrical and Electronics and M.Tech in Electrical Power System), I completed my Ph.D. in the Energy Field of Study, School of Environment Resources and Development, Asian Institute of Technology, Bangkok, Thailand, and a postdoctoral fellowship from the Renewable Energy Design Laboratory (REDLab), University of Hawaii, Manoa, United States of America, with the US NSF Award ECCS 1310709/2014. I am leading a research team through which several students were guided and delivered more than 100 invited talks and generated around 100 publications and books along with several funded/consultancy projects. My research interests are smart computing framework applied to electrical power systems, sustainable Energy Transition — smart grids and grid stability.

Broad Research Area

AI Applications in Electrical Power System Management - Renewable Integration / Smart Grid / Micro Grid - Grid Stability, High Performance Computing, Artificial Intelligence (AI), Machine Learning (ML), Big Data Analytics, Optimization.

Personal Details and Online Links

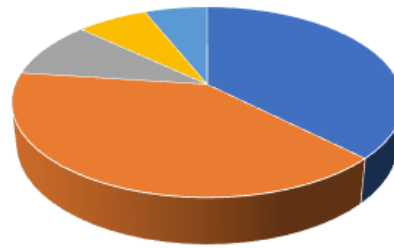
Linked In	https://www.linkedin.com/in/sasisreedhar/
Google Scholar	https://scholar.google.com/citations?user=s3pjhcgAAAAJ&hl=en
Orchid	https://orcid.org/0000-0002-9879-4499
Scopus	https://www.scopus.com/authid/detail.uri?authorId=36651976900
Web of Science	https://www.webofscience.com/wos/author/record/C-3736-2015

IEEE	https://ieeexplore.ieee.org/author/37887662800		
Consultancy	https://www.safasia.org/		
Date of Birth	29 th May, 1974	Place of Birth	Thrissur, Kerala, India.
Nationality	Indian	Marital Status	Married
QUALIFICATIONS			
Post-Doctoral Fellowship.			
College/Faculty/School/University	RED Lab - Renewable Energy Design Laboratory, University of Hawaii, Manoa, USA. https://www.hawaii.edu/		
	Ranking		
	One of the leading Public University in USA QS: 546 globally (2026) THE: 251–300 (2025)		
Research Supervisor	Dr. Reza Ghorbani		
Research Theme	Smart Grid Education and Training, for a consortium of Universities in Collaboration with Hawaii Natural Energy Institute (HNEI). High Renewable Energy Penetration Model for Maui, Island of Hawaii, United States.		
Award	US NSF award ECCS 1310709		
Term	1 year (2014-2015) Full Time		
Doctoral Degree.			
Name of Degree	D.Eng. (Doctorate in Engineering)		
College/Faculty/University	Energy Field of Study, School of Environment Resources and Development (SERD), Asian Institute of Technology, Bangkok. https://ait.ac.th/		
	Ranking		
	One of the leading international organizations founded in 1959 as SEATO Graduate School of Engineering. it receives funding from organizations and governments around the world. Ambassadors of 13 countries forms the board of trustees. QS Ranking: 200 (SERD/2025)		

	THE Ranking: 101-200 / 2025
Research Supervisor	Dr. Ongsakul Weerakorn.
Co - Supervisor	Dr. Jai Govind Singh.
Title of Thesis	Development of the PSO Based Robust Controller for Maximizing Wind Energy Penetration in Power Systems.
Term Period	Full Time , 2.5 Years (2008-2010)
Master Level Degree.	
Name of Degree	M. Tech (Master of Technology in Engineering)
College/Faculty/University	Govt. Engineering College, Thrissur, Calicut University, Kerala, India. https://gectcr.ac.in/
Specialization	Electrical Power Systems
Research Supervisor	Dr., T. N. Padmanabhan Nambiar
Title of Thesis	Genetic Algorithm Solution to Unit Commitment in Power Systems
Term Period	Full Time , 2 years (1996-1998)
Bachelor Level Degree.	
Name of Degree	B.Tech (Bachelor of Technology in Engineering)
College/Faculty/University	Govt. Engineering College, Thrissur, Calicut University, Kerala, India. https://gectcr.ac.in/
Specialization	Electrical and Electronics Engineering
Research Supervisor	Dr. T. N. Padmanabhan Nambiar
Title of Thesis	Demand Assessment and Distribution System Design of a Rural Village
Term Period	Full Time , 4 years (1991-1995)
Statistics	

Activity Type	No.
Publications	96
Invited Talks	102
Training Program Attended	25
Program Coordinated	18
Consultancy	16
Total	257

The Summary



- Publications
- Invited Talks
- Training Program Attended
- Program Coordinated
- Consultancy

EMPLOYMENT HISTORY

Institution (Place of work)	Period		Job Title	Nature of Work
	From	To		
Ministry of Higher Education. Sultanate of Oman	2022	As on Date	Civil Status Grade C	Academics and Administration
MES College of Engineering, Kuttippuram Kerala, India. https://www.mesce.ac.in/	2016	On Leave	Professor and Head of the Department	Teaching & Administration
Kerala Technological University Affiliated College	2015	2016	Director – Group of Institutions	Academics and Administration.
University of Hawaii, Manoa, USA https://www.hawaii.edu/u/	2014	2015	Post-Doctoral Fellow.	Smart Grid – Education and Research.
Kerala Technological University Affiliated College	2011	2014	Professor and Head of the Department	Teaching & Administration
Asian Institute of Technology Bangkok, Thailand. https://ait.ac.th/	2008	2010	Full Time Doctoral Research Scholar	Research
University of Technology and Applied Sciences - Ibra, Sultanate of Oman	2006	2008	Lecturer in Electrical Power	Teaching & Research
Galfar Engineering and Contracting Company, Oman	2005	2006	Design Engineer (Oil & Gas Division)	Electrical Power system design (Kauther gas plant in Oman)

https://galfar.com/				
MES College of Engineering, Kuttippuram Kerala, India. https://www.mesce.ac.in/	2002	2005	Asst Professor	Teaching
Amrita Deemed University, India https://www.amrita.edu/	1998	2002	Lecturer in Electrical and Electronics	Teaching/Research/Consultancy
SOFTWARE PROFICIENCY				
<ul style="list-style-type: none"> • MATLAB • ETAP • PSCAD • POWER WORLD • UWPFLOW • MULTISIM 		<ul style="list-style-type: none"> • PSAT • PSSE • PST • PSIM • MAT Power • Dig Silent 		
SUBJECTS TAUGHT				
Students Website and online File Sharing Link	<p style="color: green; font-size: 1.2em;">Scan for Resource Materials</p> <p>Students corner in my personal website, www.sasisreedhar.com</p>			
New Courses Developed				
<ul style="list-style-type: none"> • EGETS5251: Advanced Solar and Wind Energy Systems (Masters) • ENEL 4018: Electrical Design Estimation and Costing. • EGRE 1230: Introduction to Renewable Energy. • EGEL 2210: Electrical Power System. • EGEL 4160: Utilization of Electrical Energy 				
Courses Taught				
<ul style="list-style-type: none"> • Computer aided Power System Analysis • Power Generation Systems 	<ul style="list-style-type: none"> • Power Stations and Distribution Systems • Electrical Measurements and Instrumentation • Renewable Energy • Power system Dynamics and Stability • Power System Design and Operation 			

<ul style="list-style-type: none"> • Power Distribution Systems • Smart Grid • Artificial Intelligence and Optimization in Power Systems • Design and Engineering • Modern Power Systems: Control and Conversion • Electric Drives, Advanced Electrical Drives • Electric Circuits and Machines • Managing Big Data. 	<ul style="list-style-type: none"> • Power System Management Under Deregulation • Power System Analysis • Electrical Design Estimation and Costing • Electrical Principles • Electrical Power Systems • Electromagnetic Field Theory • Power System Protection, Power System Protection and Switch Gear • Power System Economics • Ethical Hacking and Digital Forensics • Soft Computing • Research Methodology • Cybersecurity. • Renewable Energy 	
PhD Students Completed		
Harikrishnan G R	Machine learning based controller for smart energy management in smart grid.	
Ongoing Ph.D Students and Their Research Theme		
Nikhil Binoy	Control of Demand Response and Automation of Smart Grid using IoT.	
Nesihath M. K	Optimization and Energy Management of Distributed Energy Resources Based hybrid residential Microgrid.	
Ph. D Assistance		
Name of Student	Affiliation	Remarks
Renuka T K	Govt. Engineering College, Thrissur	Completed
Saritha K S	Cochin University of Science and Technology, India	Completed
Mary Varghese	Anna University, India	Completed
Noopura. S P	Visveswaraya Technological University	Completed
Doctoral Committee Member		
Name of Candidate	Affiliation	Remarks
Ambili Mohan	Rajagiri Autonomous College under Kerala Technological University	Ongoing
Uma Shyamkumar	Govt. Engineering College, Calicut University Thrissur	Completed
Power System Laboratories Established		
1.	Have set up Power system laboratory in University of Technology and Applied Sciences (Ibra), Oman . The power and energy division of ICT is equipped with state of Art Power System Simulator from TERCO Sweden, 2007	
2.	Developed a power system Toolbox in Matlab for the computer aided power system analysis laboratory in Amrita Deemed university, Coimbatore, India, 2003	

SELECTED INVITED LECTURES				
Sl. No	Title of paper or presentation	Name of conference/ seminar	Place	Date
104	IEEE Membership and benefits	IEEE – UTAS Suhar Branch Invited talk	UTAS - Suhar	30 th April, 2026
104	IEEE Membership and benefits	IEEE – UTAS Suhar Branch Invited talk	UTAS - Suhar	1 st December,2025
103	Tools and approaches for scientific research	IEEE – UTAS Suhar Branch Invited talk	UTAS - Suhar	19 th November, 2025
102	IEEE Membership and benefits	IEEE – UTAS Suhar Branch Invited talk	UTAS - Suhar	6 th March,2025
101	Renewable Integration - Challenges	Faculty Workshop series – UTAS, AI - Musannah	Online	18 th February,2025
100	Renewable Energy Case Studies in Middle East. – Invited talk. Participation from 8 countries.	WePOWER-SAR100 https://www.sar100-yca-asia.com/module-8-faculty	Online	11 th , December, 2023
99	Artificial intelligence and machine learning using MATLAB for renewable energy applications.	AIT – UPES, Dehradun Keynote speech for the international Faculty Development Program	UPES – Dehradun – Hybrid Mode	1 st December, 2023
98	Soft Computing Framework for Smart Grid	Faculty Development Program on Research Perspectives in Energy, Environment and Conservation	SCMS cochin	15 th July, 2022
97	Artificial intelligence and machine learning using matlab for renewable energy applications.	AIT – UPES, Dehradun Keynote speech for the international Faculty Development Program	UPES – Dehradun – Hybrid Mode	19 th May, 2023
96	Soft Computing Framework for Smart Grid	Keynote speech for the international conference	SCMS cochin	15 th July, 2022
95	Smart Grid and Interdisciplinary Research Possibilities	Faculty Development Program	University of Technology and Applied Sciences - Suhar	25 th May, 2022
94	Energy Management for Disaster Management	KTU Sponsored FDP	MES Kuttippuram	10 th September, 2021

93	Career Opportunities in Computer Science	Webinar in Zoom online platform	MES Community College, Cochin	21st May.2020
92	PEV and its applications in Smart Grid.	STTP on electric & hybrid vehicle	MES College of Engineering, Kuttippuram, India	16 th July, 2019 to 20 th July 2019.
91	Smart Grid, Micro Grid/IOT Technologies - Case studies	MES - AIT Collaborative International Research Workshop on Green Energy for sustainable development of Kerala	MES College of Engineering, Kuttippuram, India	23rd March, 2019
90	Advanced Power System SCADA and Security – LDC, DA, EMS, SCADA Protocols, SCADA Security.	ADB/WB Capacity Development Training Program on Advanced SCADA and Security.	AIT Bangkok	21 st November to 28 th November, 2018
89	Solar Power Generation Basics	ANERT Training Program on Solar.	MES College of Engineering, Kuttippuram, India	24 th Sept, 2018.
88	IT enabled teaching learning	Calicut University staff training program	Calicut University, India	25 th July, 2018
87	Modern Trends and Techniques in Digital Teaching	MES Training Academy - Faculty Development Program	Fathima Gafoor MES Womens College, Calicut	22 nd June ,2019
86	Modern Trends and Techniques in Teaching – Learning	MES Training Academy - Faculty Development Program	MES Ponnani	15 th December ,2018
85	Modern Trends and Techniques in Teaching – Learning	MES Training Academy - Faculty Development Programme	MES Mampad, Kozhikode	1 st December ,2018
84	Grid Stability Issues in Smart Grid.	FDP on Distributed Generation and Smart Grid	MES College of Engineering, Kuttippuram, India	20 th July, 2018

83	Power Quality Issues in Smart Grid.	FDP on Distributed Generation and Smart Grid	MES College of Engineering, Kuttippuram, India	18 th July, 2018
82	Modern Trends and Techniques in Teaching – Learning.	MES Training Academy - Faculty Development Program.	Amal English School, Kunnamkulam	30 th May ,2018
81	Modern Trends and Techniques in Teaching – Learning.	MES Training Academy - Faculty Development Program.	MES Campus School, Kuttippuram	29 th May ,2018
80	Modern Trends and Techniques in Teaching – Learning.	MES Training Academy - Faculty Development Program.	Amal English School, Kunnamkulam	26 th May ,2018
79	Modern Trends and Techniques in Teaching – Learning.	MES Training Academy - Faculty Development Program	Ansar College, Perumpilavu	17 th May ,2018
78	Modern Trends and Techniques in Teaching – Learning.	MES Training Academy - Faculty Development Program	MES school, Kunnakkara	5 th May ,2018
77	Modern Trends and Techniques in Teaching – Learning.	MES Training Academy - Faculty Development Program	MES College of Engineering and Technology, Kunnakkara	28 th April ,2018
76	Modern Trends and Techniques in Teaching – Learning.	MES Training Academy - Faculty Development Program	MES Arts and Science College Marampilly	27 th April ,2018
75	Modern Trends and Techniques in Teaching – Learning.	MES Training Academy - Faculty Development Program	MES Arts and Science College, Kunnakkara	19 th April, 2018
74	Modern Trends and Techniques in Teaching – Learning.	MES Training Academy - Faculty Development Program	MES Arts and Science College Edathala	21 st April, 2018
73	ICT Enabled Teaching Learning.	MES Training Academy - FDP	MES Arts and Science College, Erumeli	14 rd March, 2018
72	ICT Enabled Teaching Learning.	MES Training Academy - FDP	MES Arts and Science	13 rd March, 2018

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71	Power Quality Issues in Grid Connected Inverter.	ANERT KSEB Engineers Training Programme on Solar Grid Connected Inverter.	MES College of Engineering, Kuttippuram, India	8 th March, 2018
70	Keynote Speech for EEE Department Inauguration.	Nirmala Engineering College, Thrissur, Kerala, India.	Meloor, Chalakkudy, Thrissur	3 rd March, 2018
69	Power Quality Issues in Grid Connected Inverter.	ANERT KSEB Engineers Training Programme on Solar Grid Connected Inverter.	MES College of Engineering, Kuttippuram, India	28 th February, 2018
68	Design and Engineering – Tools and Softwares	KTU Sponsored FDP on Design and Engineering using FAB-LAB	MES College of Engineering, Kuttippuram, India	21 st December, 2017
67	Renewable Integration to Kerala Grid, Challenges and Possibilities.	Keynote Speech for International Conference- ICSEE-2017	Govt. Engineering College, Kannur	15 th December, 2017
66	Renewable Energy Scenario in Asia	KSCSTE Sponsored Workshop on Recent Advances in Renewable Energy Technologies & Smart Micro-grids.	MES College of Engineering, Kuttippuram, India	14 th December, 2017
65	Grid Modelling and Analysis Using PSAT	KSCSTE Sponsored National Workshop on Recent Advances in Renewable Energy Technologies & Smart Micro-grids.	MES College of Engineering, Kuttippuram, India	12 th December, 2017
64	Introduction to PSAT	Invited Talk – EEE Dept. MES College of Engineering, Kuttippuram	MES College of Engineering, Kuttippuram, India	3 rd October, 2017
63	Energy Management for Disaster Management	National Seminar on Disaster Management	MES College of Engineering, Kuttippuram, India	13 th August, 2017

62	Grid Modelling and Analysis Using PSAT	One Day Workshop	Amrita Deemed University, India	6 th August, 2017
61	Renewable Integration- Challenges and Possibilities	Keynote speech for the National conference	Mohandas College of Engineering, India	19 th April, 2017
60	Renewable Integration- Challenges and Possibilities	Keynote speech for the National conference	Muthoot Institute of Technology, India	23 th March, 2017
59	Green Engineering	Invited Lecture on NSS Week	MES College of Engineering, Kuttippuram. India	13 th March, 2017
58	Renewable Integration Controller	Keynote Address in the National Conference on Innovative Power and Energy Conversion Technologies.	College of Engineering, Trikaripur, Kerala, India	10 th March, 2017
57	ICT Enabled Teaching Learning	FDP on Teaching/Learning Skill Development	MES College of Engineering. India	21 st January, 2017
56	Matlab Programming and applications – Invited talk	National Workshop	MES College of Engineering. India	31 st October, 2016
55	International students day	Invited talk	MES College of Engineering. India	17 th October, 2016
54	“Career Building – Hopes and Possibilities”	Final year Students – Motivational Talk	MES College of Engineering, India	7 th September, 2016
53	Sustainable Engineering	Invited Lecture on Hiroshima Day	MES College of Engineering, India	9 th August, 2016
52	Renewable Integration to Kerala Grid, Challenges and Possibilities.	Keynote Address in the International Conference on System Energy and Environment.	Govt. Engineering College, Kannur, India	5 th August, 2016

51	“Career Building – Hopes and Possibilities”	Students Programme organized by IEEE, Woman in Engineering	MES College of Engineering, India	27 th July 2016.
50	Impacts of Renewable Energy Penetration in Kerala Grid – Challenges & Solutions	Training Programme for faculty organized by State Institute of Technical Teachers Training & Research, Department of Technical Education, Govt. of Kerala.	STTR, Kalamassery, Cochin	24 th June, 2016
49	Grid Modeling & Analysis - PSAT	Smart Grid Modeling and Control for Island Utilities	Tides Ballroom, Radisson Aquatica Resort, Aquatic Gap, St. Michael, Barbados	7 th June, 2016
48	Modelling and Analysis of Renewable Integration Systems	International Conference on Emerging Trends in Smart Grid Technology. (INCETS – 16)	College of Engineering, Trikaripur	23 rd , April 2016.
47	How to generate publications and get funded projects.	International Seminar on Engineering Research.	Thejus Engineering College, Thrissur	22 nd , April 2016.
46	Demand Response, Optimization and Fault prediction in smart grid.	National Seminar on Recent Trends in Electrical Engineering.	Jyothy Engineering College, Thrissur	19 th , April 2016.
45	Integration of Renewable Energy Generations.	National Workshop on “Innovations in Renewable Energy for Sustainable Development”	MES College of Engineering, Kuttippuram, Kerala, India	9 th February, 2016
44	Kerala Power System-Smart Grid	Special Invited Lecture	IES College of Engineering, Thrissur, India	11 th Jan, 2016
43	Modelling of Renewable Integrated Systems.	Special Invited Lecture	Saintgits College of Engineering, Kottayam, India	21 st November, 2015
42	Renewable Integration to Kerala Grid.	Special Invited Lecture	Sree Buddha College of Engineering,	15 th October, 2015

			Pattoor, Nooranad, Alappuzha, India	
41	Stability and Control of Microgrid	Faculty Development Program	Govt. Engineering College, Thrissur	30 th July 2015
40	Demand Response, Optimization and Fault Prediction in Smart Grid – Modelling and Analysis.	Special Invited Lecture	National University of Singapore, Singapore	1st July, 2015
39	Smart Grid Modelling and Analysis.	Smart Grid Workshop organized by the University of Hawaii.	University of Hawaii, Manoa, United States	13-17th April, 2015
38	Demand Response, Optimization and Fault Prediction in Smart Grid – Modelling and Analysis.	Special Invited Lecture	Asian Institute of Technology, Bangkok, Thailand.	19th January, 2015
37	Global Power Scenario and Future Power System.	Special Invited Lecture	IES College of Engineering, Thrissur, Kerala, India	12 th January, 2015
36	Global Power Scenario and Challenges in Electrical Power System.	Special Invited Lecture.	Thejas Engineering College, Thrissur, Kerala, India.	31 st December, 2014
35	SCADA System for Natural Gas Transmission & Distribution	Capacity Training programme of Asian Development Bank.	Asian Institute of Technology, Bangkok.	20 th and 21 st June, 2014
34	Renewable Integration to Kerala Grid	Faculty Development Program	Saintgits College of Engineering, Kottayam	1 st May, 2014
33	Operation and Maintenance of Steam Power Plant	Capacity Training program of Asian Development Bank.	Asian Institute of Technology, Bangkok	28th October to 8th November 2013,
32	Modelling, Simulation and Analysis of FACTS and Custom Power	Faculty Development Program on Application of Power Electronics under World Bank Aid	Govt. Engineering College, Thrissur	10 th October, 2013

	Devices in Power System			
31	Modelling of Power System using various software	Faculty Development Program on Modeling and Simulation of Power System components	Amrita Deemed University, Coimbatore	11 th July, 2013
30	Artificial Intelligence and Technology	IT Association Inauguration	MES College of Engineering, Kuttippuram.	4 th July, 2013
29	Influence of Grid Connected Wind Farm in Power System.	Wind Energy PG Course	Amrita Deemed University, Coimbatore.	18 th April, 2013
28	Renewable Integration to Kerala Grid – Challenges and Possibilities	Keynote Address in NCPE 2013; National Conference on Power Engineering.	Sree Narayana Gurukulam College of Engineering, Kolenchery.	15 th March, 2013
27	Renewable Integration to Kerala Grid – Challenges and Possibilities	KSEB Engineers Association national seminar	Hotel Mothi Mahal, Thrissur.	23 rd , February, 2013
26	Power System Protection and Relay Coordination	Capacity Development Training of Asian Development Bank	Asian Institute of Technology, Bangkok, Thailand	Jan 16th to 25th, 2013
25	Digital Teaching	Calicut University staff training program	Calicut University, India.	31 st October, 2012
24	Energy Trends and Challenges	Electrical Department Association Inauguration – Keynote address	Sreepathy Engineering College, Koottanad.	18 th October
23	IT enabled teaching learning for engineering applications	Calicut University staff training program.	Calicut University, India.	12 th October, 2012
22	Power System SCADA and SMART Grid	National Seminar on Power System Operation and Control.	Thejus Engineering College, Thrissur.	29 th September 2012
21	Power System Softwares	Training programs for M.Tech power system students	Mohandas College of	10 th August, 2012

			Engineering, Trivandrum	
20	IT enabled teaching learning for engineering applications	Calicut University staff training program	Calicut University, India	4 th August, 2012
19	Relay and Protection – Advance	Capacity Training program of Asian Development Bank	Hotel Residency, Chennai	July 8 th to 19 th , 2013
18	Operation and Maintenance of Generator	Capacity Training program of Asian Development Bank	Hotel Joys Palace, Thrissur, Kerala, India	March 18 th to 27 th , 2013
17	Power System SCADA	Capacity Training program of world Bank	Asian Institute of Technology, Bangkok, Thailand	June 10 th to 15 th , 2012
16	Grid Station Operations and Management	Capacity Training program of world Bank	Asian Institute of Technology, Bangkok, Thailand	June 18 th to 19 th , 2012
15	Intelligent Controllers.	NI sponsored National conference on Smart Technologies for instrumentation and control engineering 2012 (NCSTICE – 2012)	Jyothy Engineering College, Thrissur.	March 22 nd 2012
14	Power Electronics in Power Systems-Controllers.	ISTE sponsored short term training program	Jyothy Engineering College, Thrissur	Feb 2 nd 2012
13	Wind Farm Stability Issues	Wind Energy PG Course	Amrita Deemed University, Coimbatore	Nov 2011
12	Matlab Realization of Computational optimization techniques for engineering applications	Institution of Engineers All India Seminar	Jyothy Engineering College, Thrissur	August 2011
11	Computer Applications in Power System	For Faculty members and students of Jyothy Engineering College, Thrissur	Jyothy Engineering College, Thrissur	March 2011
10	Introduction to Matlab	For IEEE hub program	Jyothy Engineering	February 2011

			College, Thrissur	
9	Application Softwares in Electrical Power Systems	For EEE Faculty and students, IES Engineering College, Thrissur	IES Engineering College, Thrissur	June 2010
8	Recent Trends in Electrical Power System Research and software's in electrical Power System	For Masters students in Electrical Power System	Govt Engineering Colege, Thrissur	Jan 2009
7	Industry Liaison Activities - Electrical and Electronics Industries in Oman	Faculty development program on Industry Liaison Activities	Ibra College of Technology, Ibra, Sultanate of Oman	Dec 2006
6	"Power System and Automation and SCADA"	One-week workshop on Introduction and applications of PLC	MES College Of Engineering, Kuttippuram, Kerala, India	August 2005
5	"Power System Problems and its solutions"	Three-day workshop on "Application software's in Electrical and Electronics Engineering" for the faculties of various Engineering Colleges	MES College Of Engineering, Kuttippuram, Kerala, India	November 2004
4	"Introduction to Matlab and its toolboxes"	Three-day workshop on "Application softwares in Electrical and Electronics Engineering" for the faculties of various Engineering Colleges	MES College of Engineering, Kuttippuram, Kerala, India	November 2004
3	"Modelling and Simulation of mechanical Systems"	AICTE/ISTE Short term course on "computational Techniques and mathematical modeling in Engineering"	MES College Of Engineering, Kuttippuram, Kerala, India.	August 2004
2	"Modelling and Simulation of Overcurrent and distance relays in Matlab"	DTE Sponsored Short Term Course on "Power System Studies using Software Packages"	Govt Engineering College Thrissur, Kerala, India	January 2004
1	"Genetic Algorithm and its applications in Electrical Power System"	DTE Sponsored Short Term Course on "Power System Studies using Software Packages"	Govt Engineering College Thrissur, Kerala, India	January 2004

IMPORTANT TRAINING PROGRAMMES ATTENDED

Name and nature of the training Programme		Place	Date
31	Solar Vehicles: Design and Implementation	Annantgyan, India	23 rd to 28 th September, 2024
30	Practical Aspects of ICT Tools and Online teaching in Current Scenario	Research Foundation of India	2 – 11 th September, 2024
29	Annual Leadership Forum (Eye on the Future): Financial Sustainability of Universities.	Musandam, Sultanate of Oman	February 27, 2024, to March Ist, 2014
28	Realtime Applications of Opel RT for Smart Grid	VIT Vellore, TN (Online Mode)	17 th to 21 st October, 2022
27	Realtime Applications of Opel RT for Power Electronics Smart Grid and Microgrid	VIT Vellore, TN (Online Mode)	3 rd to 7 th August, 2020
26	Future Kerala Educational Summit	The Hotel Crown Plaza, Cochin	28/06/2019
25	Future Kerala Educational Summit	The Hotel Crown Plaza, Cochin	29/06/2018
24	Post-Doctoral Research – 2 Weeks	School of Energy Asian Institute of Technology, Bangkok, Thailand	28 th May to 11 th June, 2017
23	Future Kerala Educational Summit	The Hotel Crown Plaza, Cochin	21/06/2017
22	ICT India- VMWare Academic Meet	The hotel Beaumonde The Fern, Cochin	27/09/2016
21	KTU workshop on Collaborative Research	Kerala Technological University, Trivandrum	8/09/2016
20	APEC Workshop on Development and Application of Solar Technologies and Products.	Kunming, China	Aug 2016
19	Workshop on Energy sharing in Asia (Sponsored by Norwegian Ministry)	Asian Institute of Technology, Bangkok, Thailand	Aug 2009
18	Workshop on Energy Environment /Partnership in Mekong Region (Sponsored by Ministry of Foreign Affairs Finland)	Asian Institute of Technology, Bangkok, Thailand	Oct 2008
17	Faculty development programme on Industry Liaison Activities	Ibra College OF Technology, Sultanate of Oman	Dec 2006
16	Research Methodology Workshop	Ibra College OF Technology, Sultanate of Oman	June 2006
15	One-week training programme on Networking with GNU Linux	MES College of Engineering, Kuttippuram, Kerala India	Sept 2005
14	Workshop on Energy sharing in Asia (Sponsored by Norwegian Ministry)	Asian Institute of Technology, Bangkok, Thailand	Aug 2009

13	Workshop on Energy Environment /Partnership in Mekong Region (Sponsored by Ministry of Foreign Affairs Finland)	Asian Institute of Technology, Bangkok, Thailand	Oct 2008
12	Faculty development programme on Industry Liaison Activities	Ibra College OF Technology, Sultanate of Oman	Dec 2006
11	Research Methodology Workshop	Ibra College OF Technology, Sultanate of Oman	June 2006
10	One-week short term training programme on Introduction and applications of PLC	MES College of Engineering, Kuttippuram, Kerala, India	August 2005
9	One-week training programme Power System SCADA and EMS	Power system Training Institute, Bangalore, India	May 2 005
8	One day national seminar on Institutional development and knowledge networking	National Institute of Technology, Calicut, India	Dec 2003
7	National workshop on “GNU Linux Technologies for Generation Next “	MES College of Engineering, Kuttippuram, Kerala, India	Sept-Oct 2003
6	One-week short term training programme on Computer Aided Power System Solutions	NSS College of Engineering, Palghat, Kerala, India	August 2003
5	Two-week training programme on applications softwares in electrical engineering	Coimbatore Institute of Technology, Coimbatore, Tamilnadu, India	Nov 2001
4	One day training on Electrical system for a tyre industry	Appollo Tyres, Perambra, Thrissur, Kerala, India	Dec 2001
3	Two-week Training Programme on Aircraft Electrical Systems	Hindustan Aeronautics Bangalore, India	Nov 2000
2	Training Programme on Intelligent Systems	CUSAT, COCHIN, Kerala, India	Oct 2000
1	Training Programme on Instrumentation and Control for controlling Energy Audits	Energy Management Centre, Government OF Kerala, India	Feb 1998

M.Tech and Ph.D STUDENTS GUIDENCE

M.Tech	15
Ph.D	Completed – 4 Ongoing – 2

INDUSTRIAL CONSULTANCY

Name of institution receiving consultation or services	Nature of consultation or services	Date
Galfar LLC Oman.	Electrical Power System Design of Kawther Gas Plant	Oct 2005

Technical Development Trading and Contracting Company, Sur, Muscat, Sultanate of Oman.	Load Identification and Power Line Mapping and Distribution System Design for the Electrical Installation of their GSM site.	March 2001
Hykon Power Electronics Pvt Ltd	Research and Development of Solar Inverter	Jan 1999
Comtech Engineers and Contractors	Electrical System design of Small Industrial Establishments	Jan 1998
Integrated Rural Technology, Mundur, Palghat, ANERT, MNES, Govt Of India	Demand Assessment and Distribution system Design of Kaimba village of Palghat District as a part of Meenvallam Hydroelectric project	Oct 1995

IMPORTANT ACTIVITIES CO -ORDINATED

Nature of service or activity	Place	Date
Trends in Modern Marine Related Specializations Workshop	University of Technology and Applied Sciences Head Quarters, Oman	15-16 th December, 2025
Emerging Paradigms for global business – University of Technology and Applied Sciences, Oman and MES Marampilly joint hybrid Workshop.	Online	18/12/2025
AICTE Funded STTP on Smart Computing Technologies and Applications	MES College of Engineering, Kuttippuram.	14 th to 19 th December, 2020
MES - AIT Collaborative International Research Workshop on Green Energy for Sustainable Development of Kerala	MES College of Engineering, Kuttippuram, Kerala, India.	22 to 23 rd March, 2019
MES Training Academy - Inauguration	MES College of Engineering, Kuttippuram, Kerala, India.	15 th February, 2018
KSCSTE Sponsored National Workshop on Recent Advances in Renewable Energy Technologies & Smart Micro-grid	MES College of Engineering, Kuttippuram, Kerala, India.	11 to 15 th December, 2017
MES Innovation Centre - Inauguration	MES College of Engineering, Kuttippuram, Kerala, India.	18 th August, 2017
Staff Development Programme on Teaching- Learning Skill Development	MES College of Engineering, Kuttippuram, Kerala, India.	29 th July, 2017

One Week FDP on Teaching- Learning Skill Development	MES College of Engineering, Kuttippuram.	3 rd to 10 th July, 2017
FDP on Teaching- Learning Skill Development	MES College of Engineering, Kuttippuram, Kerala, India.	20 th and 21 st June, 2017
Smart Grid Modelling and Control for Island Utilities on the behalf of REDLab, United States.	Barbados	June, 2016
Graduation Ceremony - 2016	Thejus Engineering College, Thrissur, Kerala, India.	April - 2016
International Seminar on Engineering Research	Thejus Engineering College, Thrissur, Kerala, India.	April - 2016
International Workshop on Smart Grid.	University of Hawaii, Manoa, United States	April - 2015
Programme Coordinator – KSCSTE funded National Science Day celebration	Vidya Academy of Science and Technology, Thrissur, Kerala, India.	Feb – 2011
Faculty Development Programme on Industry Liaison Activities	Ibra College OF Technology, Oman	Dec - 2006
Introduction and Applications of Programmable Logic Controllers	MES College of Engineering, Kuttippuram, Kerala, India.	August - 2005
“Machinfinty – 2001” a national level technical symposium held at Amrita University	Coimbatore, Kerala, India	Sept 2001
“Computer aided power system analysis “National level Workshop for the Engineering College Faculty in Amrita Deemed University	Coimbatore, Kerala, India	Jan 2001

CONSULTANCY PROJECTS

Project Title& Venue	Funding Agency	Project Value (USD)	Project Position
“Advanced <i>Power System SCADA and security</i> ”, November 21 st to 3 rd , 2018 for Bangladesh Power Professionals, Bangkok, Thailand.	World Bank routed through Asian Institute of Technology, Bangkok	35000	Consultant and Resource Person
“Sustainable Strategies for Water Scarcity Management and Effective Management of Water	Asian Institute of Technology, Bangkok	20000	Consultant and Coordinator

Resources” 19 – 28 Nov 2017, India and Srilanka.			
Smart Grid Modelling and Control for Island Utilities – 6 th and 7 th June 2016, Barbados.	Clarke Energy Associates Barbados http://www.clarkeenergyassociates.com/	25000	Consultant and Resource Person
SCADA System for Natural Gas Transmission & Distribution 20 th and 21 st June 2014, Bangkok, Thailand.	Asian Development Bank routed through Asian Institute of Technology, Bangkok	20000	Consultant and Resource Person
Operation and Maintenance of Steam Turbine” from 28 th October to 8 th November 2013, Chennai, India.	Asian Development Bank routed through Asian Institute of Technology, Bangkok	30000	Consultant, Resource Person and Team Leader
“Operation and Maintenance of Gas Turbine Power Plant” 30 th Sept to 11 th October 2013 Bangkok, Thailand.	Asian Development Bank routed through Asian Institute of Technology, Bangkok	25000	Consultant and Resource Person
“Relay and Protection – Advance” July 8 th to 19 th , 2013 for Bangladesh Power Professionals, Chennai, India.	Asian Development Bank routed through Asian Institute of Technology, Bangkok	20000	Consultant, Resource Person and Team Leader
“Operation and Maintenance of Generator” March 18 th to 27 th , 2013 for Bangladesh Power Professionals, Thrissur, India.	Asian Development Bank routed through Asian Institute of Technology, Bangkok	30000	Consultant, Resource Person and Team Leader
“Power System Protection and Relay Coordination”, Jan 16 th to 25 th , 2013 for Bangladesh Power Professionals, Bangkok, Thailand	Asian Development Bank routed through Asian Institute of Technology, Bangkok	25000	Consultant and Resource Person
“Power System SCADA”, June 10 th to 15 th , 2012 for Bangladesh Power Professionals, Bangkok, Thailand	World Bank routed through Asian Institute of Technology, Bangkok	35000	Consultant and Resource Person
“Grid Station Operations and Management”, June 18 th to 19 th , 2012, Bangkok, Thailand	World Bank routed through Asian Institute of Technology, Bangkok	25000	Consultant and Resource Person
Total International Project Value (USD)		2,30,000	
FUNDED PROJECTS			

Project Title	Funding Agency	Project Value (INR)	Project Position
Development of solar integrated collector storage system Incorporating PCM based combined storage units suitable for Domestic application.	Kerala State Council for science Technology and environment, Kerala, India	775821/-	Principal Investigator
CONSULTANCY PROJECTS			
Project Title	Project Details		
Desk study on technical gaps of country-specific grid codes and regulations and recommendations for a common ASEAN wide-grid code – USAID Clean Power Asia	<ul style="list-style-type: none"> • Consultant • Funded by Asian Development Bank/World Bank through Asian Institute of Technology, Bangkok. • Project Duration: (1/03/2021 to 31/10/2023). 		
FUNDING RECEIVED from All India Council of Technical Education, Department of Science and Technology etc.			
<ul style="list-style-type: none"> • IRG Research Grant: An Approach for Loss Minimization and Capacity Savings in Community Microgrid Networks in Oman have been completed in Fall – 2023. • AICTE Funding for conducting STTP on Smart Computing Technologies and Applications. • KSCSTE Sponsored national workshop on Recent Technologies in Renewable Energy Technologies and Smart Grids. • Department of Science and Technology and All India Council of Technical Education Fellowship for attending the IEEE PES GM in Detroit, Michigan, USA. 2011. 			
SPECIAL AWARDS AND HONOURS			
<ol style="list-style-type: none"> 1. Member – Board of Studies, Nehru College of Engineering and Research Centre – Autonomous college, Kerala, India. 2026 Onwards 2. Advisory Committee Member: IEEE - International Conference on Futuristic technologies in Control Systems & Renewable energy - 2024 (ICFCR) 3. Editorial Board Member, Naresuan University Engineering Journal (NUEJ), Thailand. 4. Scientific Committee Member, International Seminar on Renewable Energies, University M'HAMED BOUGARA – Boumerdès, 19-20 December 2017 5. United States - Department of Energy (DOE)- University of Hawaii, Post-Doctoral Fellowship Award in 2014. 6. Asian Institute of Technology Fellowship for Doctoral studies.2008 7. Recognized Reviewer, Green Druyter, www.degruyter.com 8. Syllabus Committee Member, B.Tech, Kerala Technological University. (2015-2018) 9. IEEE Climate Change Technology Subcommittee member.2011 			

10. IEEE Working Group on Distributed Resources Integration member. 2011
11. Organizing Committee member “THE 15TH IEEE PES ASIA-PACIFIC POWER AND ENERGY ENGINEERING CONFERENCE 2023 (APPEEC 2023), 6th - 9th December 2023, Chiang Mai, Thailand
12. Technical program committee member “The international conference and exhibition on power and energy systems: Issues and Prospects for Asia” ICUE-2011, Bangkok, Thailand.
13. Best Paper Award for the paper entitled “GA Based Optimal FACTS Controller for Maximizing, Loadability with Stability Constraints”, ICETEM2014, India.
14. Best Paper Award for the paper entitled PSO Based Optimal Placement and Setting of FACTS Devices for Improving the Performance of Power Distribution System in *NCPSE 2011*, India.
15. Reviewer of various national and international journals and conferences including IEEE, Springer, Science Direct, Inder science etc.
16. Consultant and Visiting Faculty, Extension Programmes, Asian Institute of Technology, Bangkok.
17. Approved Ph.D supervisor, APJ Abdul Kalam, Kerala Technological University, Kerala
18. Approved Ph.D supervisor, Anna University, Tamilnadu, India
19. Editorial Board Member, Canadian Journal on Electrical and Electronics Engineering, ISSN: 1923-0540 (2012-2015)
20. Doctoral Committee member, TEQIP, AICTE, India.
21. Received a certificate of Appreciation for successfully driving the department for NBA Accreditation from MES College of Engineering, Kuttippuram, Kerala, India.
22. Licensed Electrical Supervisor, Kerala, India.

CERTIFICATIONS

- NVIDIA – Fundamentals of deep learning, November, 2025
- WIPO (World Intellectual Property rights) - General Course on Intellectual Property (DL-101), March - 2023

MEMBERSHIP OF PROFESSIONAL ORGANIZATIONS

- **Senior Member – IEEE**
- Life Member, Indian Society of Technical Education (ISTE)
- Life Member, International Association of Engineers (IAENG)
- Life Member, Energy Conservation Society of India. (ECS)

INTERESTS AND HOBBIES

Spiritual Practices, Hearing Music, Driving, Software Development

REFERENCE

(1) Dr. Jai Govind Singh
Associate Professor,

(2) Dr. Weerakorn Ongsakul,
Professor,

<p>Energy Field of Study, Asian Institute of Technology, P O Box 4, Klong Laung, Pathumthani-12120, Thailand. Tel:(+66-2) 524-5426 (D), (+66-2) 524-5407(Secretary) Fax: (+66-2) 524-5439 Email: jgsingh@ait.ac.th www.serd.ait.ac.th</p>	<p>Energy Field of Study, Asian Institute of Technology, P O Box 4, Klong Laung, Pathumthani-12120, Thailand. Tel:(+66-2) 524- 6074 (D),(+66-2) 524-5407(Secretary) Fax: (+66-2) 524-5439 Email: ongsakul@ait.ac.th www.serd.ait.ac.th</p>
<p>(3) Dr. Reza Ghorbani, Professor, Director (REDLab) University of Hawai`i at Manoa 2540 Dole St. - Holmes Hall 201 Honolulu HI, USA Phone:(808) 956-2292, Fax: (808) 956-2373 Email: rezag@hawaii.edu http://www.hawaii.edu</p>	

Books - Editorial board member

- AI Techniques for Renewable Source Integration and Battery Charging Methods in Electric Vehicle Applications. United States, IGI Global, 2023. (Scopus Indexed)
- Artificial Intelligence in Battery Management Systems and Routing Problems in Electric Vehicles, United States, IGI Global, ACEE Book Series, 2023. (Scopus Indexed)

Publications

Books	Books – Editorial	Book Chapters	International Study Reports	Journals	Conferences
1	2	1	1	30	64

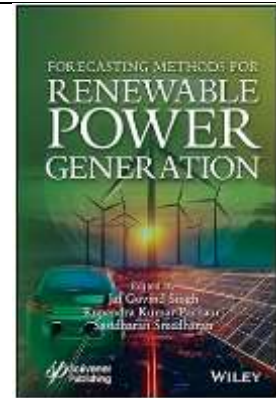
Books

1. J G Singh, Rupendra Pachuri, Sasidharan Sreedharan
“Forecasting Methods for Renewable Power Generation”
Wiley - Scrivener publishing. March - 2025.

Availability

<https://www.wiley.com/en-us/Forecasting+Methods+for+Renewable+Power+Generation-p-9781394249442>

<https://www.amazon.com/Forecasting-Methods-Renewable-Power-Generation/dp/1394249438>



International Study Reports

2. USAID consultancy report on “Desk study on technical gaps of country - specific grid codes and regulations and recommendations for a common Asian wide-grid code”
USAID clean power Asia, June 2021. Contract No.: AID-486-C-16-00001



Book Chapter

3. Chapter Title: Microgrid Integration in Kerala Power Grid — A Case Study, Authors, KS Saritha, Sasidharan Sreedharan, Usha Nair, Publication date. 2020, Book, Advances in Electrical and Computer Technologies, Pages,1117-1128, Publisher, Springer, Singapore

Journals

4. Balaji S K, Awadh Al Mamari, Sasidharan Sreedharan, Parmal Singh Solanki,
“Microgrid Sustainability – A new business model for Oman” GMSARN International Energy Journal, Asian Institute of Technology, Bangkok, Vol 20 (2026) p.311-316 (Q3)
5. Nesiath M K, Nafeesa K A. S. Sreedharan, “Design and Implementation of Energy Management System for Optimal Hybrid Residential Microgrid” Springer Nature on Electrical Engineering, February - 2026. (IF: 1.9)

6. G. R. Harikrishnan, S. Sreedharan, Tibin Joseph and P K Nusrath, "Hybrid LSTM – GRU Model Assisted Recommendation System for Home Energy Management" *Arabian Journal for Science and Engineering*, May - 2025. (*Submitted*)
7. Solanki P S, Magdy Saoudi, Sasidharan Sreedharan et al., "An Artificial Intelligence based Novel Strategy for Fault Prognostic in Transformers" *SSRG International Journal of Electrical and Electronics Engineering*, September - 2025
<https://doi.org/10.14445/23488379/IJEEE-V12I9P107>
8. G. R. Harikrishnan, S. Sreedharan, and N. B. C, "Advanced short-term load forecasting for residential demand response: An XGBoost-ANN ensemble approach," *Electrical. Power System. Research*, vol. 242, no. December 2024, p. 111476, 2025. (SCIE: IF: 4.2).
9. Sasidharan Sreedharan, Parmal Singh Solanki, Magdy S Abdelfatah and I Made Wartana, July 2025 "An approach for loss minimization and capacity savings in residential microgrid networks in Oman" *Indonesian Journal of Electrical Engineering and Computer Science*. <http://doi.org/10.11591/ijeecs.v39.i1.pp1-10>
10. Magdy Saoudi, Parmal Singh S, Sasidharan Sreedharan, "Design and Implementation of 4-quadrant Chopper for Speed Control of EVs and Regenerative Braking Analysis", *International Journal of Power Electronics and Drive System (IJPEDS)*- March -2025.
<http://doi.org/10.11591/ijpeds.v16.i1.pp407-417>
11. Saritha K S, Sasidharan Sreedharan, Usha Nair. 2023 "A Novel optimal Control Strategy for Energy Management in a Microgrid System" *International Energy Journal*, Asian Institute of Technology, Bangkok. Vol: 23, Issue: 2, June 2023, pp. 83-96 (Q4)
12. I Made Warthana, Sasidharan Sreedharan et al. 2022 'Improved security and stability of grid connected wind energy conversion system by unified power flow controller" *Indonesian Journal of Electrical Engineering and Computer Science*. Vol: 27, Issue: 3, pp. 1151-1161. <https://ijeecs.iaescore.com/index.php/IJEECS/article/view/29081>
13. Bindu Anto, Sasidharan Sreedharan 2021 "**Motivational factors for Energy Conservation in workplace: A focus from Employees Perspective**" *GMSARN International Energy Journal*, Asian Institute of Technology, Bangkok. (Q3)
14. I Made Warthana, Sasidharan Sreedharan et al. 2021 'Optimal Integration of Wind Energy with a Shunt-FACTS Controller for Reductions in Electrical Power Loss" *Indonesian Journal of Electrical Engineering and Computer Science*. <https://ijeecs.iaescore.com/index.php/IJEECS/article/view/25005>

15. Saritha, Sasidharan Sreedharan, Usha Nair. 2021 “Swarm Intelligence Approach for Optimum Renewable Integration of Campus Microgrid –A Case Study” *GMSARN International Energy Journal*, Asian Institute of Technology, Bangkok, 157 - 165. (Q3)
16. Sasidharan Sreedharan, et. al, 2019 “Power System Loading Margin Enhancement by Optimal STATCOM Integration - A Case Study” *Elsevier Journal: Computers and Electrical Engineering*, (SCIE: Impact Factor: 4.4).
<https://doi.org/10.1016/j.compeleceng.2019.106521>
17. T. K. Renuka, P. Reji 2, Sasidharan Sreedharan, 2018 “An enhanced particle swarm optimization algorithm for improving the renewable energy penetration and small signal stability in power system" *Springer Nature Journal on Renewables: Wind, Water, and Solar*.
18. Preethi Sebastian, Sasidharan Sreedharan and Usha Nair, 2019, “Comparison of Retrofitting techniques for improving LVRT Capability of variable speed wind turbine employing SCIG “*Test Engineering and Management*, December, 1255-1265
19. Noopura S P, Sasidharan Sreedharan et al. “An Optimal Framework for Dynamic Energy Management in Microgrids” *GMSARN International Energy Journal*, Asian Institute of Technology, Bangkok, Vol. 12 (2018) 76 – 83. (Q3)
20. M Motalleb, S Sreedharan, H Sangrody, A Eshraghi, R Ghorbani “Power Grid Reliability Improvement through Forecasting with Complex-Valued Neural Networks under System Contingency” *American Journal of Engineering Research (AJER)* 6 (7), 106-122
21. T. K. Renuka, P. Reji 2, Sasidharan Sreedharan, 2016 “Enhancement of small signal stability of a DFIG-based wind power system using fuzzy logic control” *International Journal of Engineering, Science and Technology* Vol. 8, No. 3, 2016, pp. 48-63
22. Vijai Jairaj, VISHNU. J, Sasidharan Sreedharan, 2016, “POD Based FACTs Controller for Power Quality Enhancement in Wind Integrated System” *International Journal of Scientific & Engineering Research –IJSER*
23. Sasidharan Sreedharan, Reza Ghorbani, Saeed Sepasi, Weerakorn Ongsakul and Jai Govind Singh, 2015 “Simultaneous Optimization of Renewable Power at Transmission and Distribution Grid”, *Elsevier Procedia*.
24. R Visakhan, Sasidharan Sreedharan et. al, 2015 “Comparative study of PSS and STATCOM-POD for Transient Stability in Microgrid” *Asian Journal of Engineering and Technology* (ISSN: 2321 – 2462) Volume 03 – Special Issue.

25. Chittesh V C, Elizabeth Rajan, Sasidharan Sreedharan, Tibin Joseph, Sebin Joseph, Vipin Das P, Vishnu J, "PSO Based Optimal PV Placement For Maximizing Penetration" International Journal on Advanced Computer Engineering and Communication Technology (IJACECT), IJACECT irdindia pune, ISSN (Print): 2278-5140, October -2014
26. Vishnu J, Rishi Menon, Tibin Joseph, Sasidharan Sreedharan, Vipin das P, Sebin Joseph, Chittesh V C, "Maximum Loadability Assessment of IEEE 14 Bus System Using FACTS Devices Incorporating Stability Constraints". International Journal of Industrial Electronics and Electrical Engineering (IJIEEE), volume - 2, Issues – 10. August -2014
27. Jasmy Paul, Tibin Joseph, Sasidharan Sreedharan " Congestion Management in transmission network using PSO " Bonfring International Journal of Power Systems and Integrated Circuits, (2013), Special Issue.
28. Tibin Joseph, Sini Xavier and Sasidharan Sreedharan " Congestion management in power systems: Solution based on optimal placement and setting of TCSC "Electrical and Electronics Engineering: An International Journal, Wireilla Publishers, June - 2013 issue
29. Ajilly Ann John, Tibin Joseph, Sreedharan S "Allocation of FACTS Devices for Congestion Relief Using Particle Swarm Optimization", International Journal of Engineering Research & Technology (IJERT) Vol. 2 Issue 8, August – 2013, ISSN: 2278-0181
30. Sreedharan, Sasidharan, Weerakorn Ongsakul, and J. G. Singh. 2010. "Development of PSO based robust controller for maximizing wind penetration." Int. J. Renewable Energy Technology, Vol. 3, No. 1, 2012 Scopus Indexed
31. Sreedharan, Sasidharan, Weerakorn Ongsakul, and J. G. Singh. 2010. "Maximization of instantaneous wind penetration using particle swarm optimization." International Journal of Engineering Science and Technology 2(5): 39-49.
32. I Made Wartana, Weerakorn Ongsakul, J. G. Singh and Sreedharan Sasidharan. 2010. "Optimal placement of FACTS controllers for maximizing system loadability by PSO." International Journal of power and energy conversion, Inderscience, Scopus Indexed
33. Kittavit Buayai, I Made Wartana and Sreedharan Sasidharan, 2011. "A Multiobjective Optimal Placement of Multi-Type DG for Enhancement of Power System Performance by NSGA-II." GMSARN International Energy Journal, Asian Institute of Technology, Bangkok, Vol. 5 No. 2, June – 2011, Scopus Indexed.

34. Sony Francis, Sasidharan Sreedharan, Sobha Manakkal “*Voltage Stability Analysis of Wind Integrated Grid*” IRACST – Engineering Science and Technology: An International Journal (ESTIJ), ISSN: 2250-3498, Vol.3, No.2, April - 2013
35. Tibin J, Sini X., Chitra S., Cherian V.I., Sreedharan S “*PSO Based Optimal Placement and Setting of FACTS Devices for Improving the Performance of Power Distribution System*”, Bonfring International Journal of Power Systems and Integrated Circuits, Vol. 1, Special Issue, December - 2011
36. Jasmy Paul, Tibin Joseph, Sasidharan Sreedharan “*PSO Based Generator Real Power Output Management for Congestion Relief in a large power system*” selected issue of International Journal of Electrical & Electronics Systems Research, IJEESR, Malaysia.

Conference

37. Sasidharan Sreedharan, Parmal Singh Solanki, Magdy Saoudi., “**A big data trained ANN Framework for voltage stability in microgrid**” for **Fault Prediction and Grid Healing in Smart Microgrid**,” The International Conference on Creative Engineering and Emerging Technologies – Exploring Future Edges (ICCEET2026), 27–29 April, 2026, University of Nizwa, Oman.
38. Sasidharan Sreedharan, Parmal Singh Solanki, Magdy Saoudi., “**An AI big data approach for Fault Prediction and Grid Healing in Smart Microgrid**,” 3rd Environmental Science and Engineering for Sustainable Development” (ESES2026), 11–12 January, 2026, University of Technology and Applied Sciences, Suhar, Oman.
39. Sasidharan Sreedharan, Sreedevi Sasidharan et al., “A novel approach for heart disease prediction using ANN”, 2nd International Conference on Humans and Technology (ICHT 2026), 28–29 January 2026, MES College Marampally, Kerala, India.
40. Nikhil Binoy, Sasidharan Sreedharan et al., “Tracking the Activities of Alzheimer's Disease Patients using GRU Algorithm,” International Conference on Sustainable Development in Engineering and Technology 2025 (ICSDET 2025), 2025.
41. A. Khalid, Sasidharan Sreedharan et al., “A novel end user comfort-based energy management strategy in community microgrid,” in International Conference on Sustainable Development in Engineering and Technology 2025 (ICSDET 2025), 2025.
42. Nesihath M K, Aneesha M V, Nafeesa K, Sasidharan S, “Optimization and Energy Management Considering Demand Response” ICFCR - 2024, IEEE International Conference on Futuristic technologies in Control Systems & Renewable energy – 2024.
43. Harikrishnan G R, Sasidharan Sreedharan et. al, “Privacy Preservation and Load Forecasting in Energy Distribution System Using Deep Learning” ICFCR - 2024, IEEE

International Conference on Futuristic technologies in Control Systems & Renewable energy – 2024.

44. Tarun Premnath, Harikrishnan G R, Sasidharan Sreedharan et. al, “Machine Learning Approaches for Load Forecasting and time series analysis” ICCPCT 2024, 7th International Conference on Circuit, Power and Computing Technologies - 2024. <https://ieeexplore.ieee.org/document/10672971>
45. Magdy Saoudi, Parmal Singh S, Sasidharan Sreedharan, “Design and Analysis of a 3-phase Inverter for EVs Speed Control and Regenerative Braking - A Novel Strategy.” ICFCR – 2024, IEEE International Conference on Futuristic technologies in Control Systems & Renewable energy – 2024.
46. Kalathil Prathapan Pushya, Supriya P, Sasidharan Sreedharan et al. “Compressor Fault Diagnosis Employing Machine Learning Techniques “Innovations in Power and Advanced Computing Technologies (i-PACT -2023)
47. Sasidharan Sreedharan, Magdy Saoudi, Parmal Singh S, “A Generalized Setup of a Campus Microgrid – An Oman Study “The Second international Conference on Environmental Sciences and Engineering for sustainable development, ESESD -2024
48. Magdy Saoudi, Parmal Singh S, Sasidharan Sreedharan, “Design and Implementation of four quadrant chopper for the speed control of electric vehicles and regenerative breaking analysis” The Second international Conference on Environmental Sciences and Engineering for sustainable development, ESESD -2024
49. Harikrishnan G R , Sasidharan Sreedharan et al., “Demand Supported Energy Managment framework for residential users” IEEE International Conference on Power Electronics, Smart Grid and renewable energy (PESGRE - 2023)
50. Solanki P S, Sasidharan Sreedharan, Piyush Dua et al., “Harmonics and Energy Savings of VFDs used for HVAC System : A case study in Oman”, ICICCD-2022, organized by Electrical Cluster, School of Engineering, at University of Petroleum and Energy Studies, Bidholi Campus, Dehradun, 2022.
51. Nesihath M K, Sasidharan Sreedharan et al., Optimal Energy Management System for hybrid residential microgrids, International Conference on Futuristic technologies in control system and renewable energy (ICFCR - 2022)
52. K S Saritha, Sasidharan Sreedharan and Usha Nair., A Generalized Setup of A Campus Microgrid - A Case Study’ “International Conference on Energy, Communication, Data Analytics and Soft Computing (ICECDS - 2017)

53. Princy U, Sasidharan Sreedharan and Jaseena S., Optimum Energy Management Strategy for Renewable Integrated Microgrid IEEE International Conference on Intelligent Computing, Instrumentation & Control Technologies (ICICICT-2017).
54. Princy u, Sasidharan Sreedharan et. al., Voltage stability analysis of power system network integrated with renewable source and SVC, i-PACT-2017, International Conference on Power and Advanced computing technologies, VIT Chennai, India, (2017)
55. Sebin Joseph, Emil Ninan Skariah, Tibin Joseph, Sasidharan Sreedharan, Chittesh V C, Vipin Das P, Vishnu J, PSO Based Optimal Allocation & Setting of Multiple DGs in Power System for Maximizing Loadability, NCET'14, Government Engineering College Barton Hill, Volume 3, August 1-2, (2014).
56. Sebin Joseph, Emil Ninan Skariah, Tibin Joseph, Sasidharan Sreedharan, Chittesh V C, Vipin Das P, Vishnu J, PSO Based Optimal Placement & Setting Of Fuel Cell In Wind Integrated Power System For Maximizing Loadability, ICEEMS 2014, School of Engineering, Cochin University of Science and Technology, December 10-12 (2014).
57. Sebin Joseph, Emil Ninan Skariah, Tibin Joseph, Sasidharan Sreedharan, Chittesh V C, Vipin Das P, Vishnu J, PSO Based Optimal Placement & Setting of Fuel Cell in Wind Integrated Power System for Maximizing Loadability, ICETES '14, MACE, December 15-16 (2014).
58. Sebin Joseph, Emil Ninan Skariah, Tibin Joseph, Sasidharan Sreedharan, Chittesh V C, Vipin Das P, Vishnu J, PSO Based Controller Algorithm For Optimal Allocation & Setting of Fuel Cell In A Wind - PV Integrated Power System for Maximizing Loadability, ICAGE 2014, Mar Baselios College of Engineering & Technology, Trivandrum}, December 17-18 (2014).
59. Sebin Joseph, Emil Ninan Skariah, Tibin Joseph, Sasidharan Sreedharan, Chittesh V C, Vipin Das P, Vishnu J, GA Based Optimal Allocation & Setting of Fuel Cell for Loadability Enhancement in IEEE 14 Bus System Based on Small Signal Stability, ICETEM 2014, SNGCE, December 30-31 (2014).
60. Sebin Joseph, Emil Ninan Skariah, Tibin Joseph, Sasidharan Sreedharan, Chittesh V C, Vipin Das P, Vishnu J, Loadability Enhancement of Central Travancore Grid by Optimal Allocation & Setting of Distributed Generator Based on Stability Margins, IEEE SPICES 2015, NIT Calicut, February 19-21 (2015).
61. Vipin Das P, Tibin Joseph, Dr. Sasidharan Sreedharan, Chittesh V C, Sebin Joseph, Vishnu J, " GA based Operating cost minimization of IEEE 14 bus system considering

stability" International Conference on Energy, Environment, Materials and Safety'14 at Cochin University of Science and Technology, Cochin on December 10-12, 2014.

62. Vipin Das P, Tibin Joseph, Dr. Sasidharan Sreedharan, Chittesh V C, Sebin Joseph, Vishnu J "Loadability enhancement of IEEE 14 bus system with wind energy penetration" International Conference on Emerging Trends in Electrical Systems '14, Mar Athanasius College of Engineering Kothamangalam, Kerala on December 15th-16th 2014.
63. Vipin Das P, Tibin Joseph, Dr. Sasidharan Sreedharan, Chittesh V C, Sebin Joseph, Vishnu J, "PSO Based Optimal Renewable Energy Controller for Cost Minimization of Central Travancore Grid Considering Power System Stability" 27th Kerala Science Congress on January 27th – 30th 2015.
64. Vishnu J, Rishi Menon, Tibin Joseph, Sasidharan Sreedharan, Vipin das P, Sebin Joseph, Chittesh V C, "Maximum Loadability Assessment of IEEE 14 Bus System by Using FACTS Devices Incorporating Stability Constraints". IACEEE 2014, IRAJ International Conference 2014, Cochin (Proceedings of Second IRF International Conference on 10th August 2014, Cochin, India, ISBN: 978-93-84209-43-8, 74-80.
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