

Dr. Sasidharan Sreedharan

“Sreedarsan”, Pulimoottil House, Pudhurkkara, Ayyanthole,
Thrissur - 680003, Kerala, India.

Email: sasi@hawaii.edu

www.sasisreedhar.com

Mobile: +968 - 71345365 (Oman)
+91 - 9447061365 (INDIA- Global)



PERSONAL DATA AND CONNECTIVITIES

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		
Research Gate	https://www.researchgate.net/profile/Sasidharan_Sreedharan		
Consultancy	www.safasia.org		
Date of Birth	29 th May 1974	Place of Birth	Thrissur, Kerala, India.
Nationality	Indian	Marital Status	Married
Broad Research Area		Renewable Integration/ Smart Grid - High Performance Computing, Artificial Intelligence (AI), Machine Learning (ML), Big Data Analytics, Optimization.	

QUALIFICATIONS

Post-Doctoral Fellowship.

College/Faculty/School/University	RED Lab - Renewable Energy Design Laboratory, University of Hawaii, Manoa, USA. http://manoa.hawaii.edu/me/redlab/ US NSF award ECCS 1310709
-----------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

	Research Supervisor: Dr. Reza Ghorbani www.hawaii.edu
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.
Term	1 year (2014-2015)
Doctoral Degree.	
Name of Degree	D.Eng. (Doctorate in Engineering)
College/Faculty/University	Energy Field of Study School of Environment Resources and Development. Asian Institute of Technology, Bangkok, www.ait.asia
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 (or Faculty)	Govt. Engineering College, Thrissur, Calicut University, Kerala, India. http://gectcr.ac.in/
Specialization	Electrical Power Systems
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 (or Faculty)	Govt. Engineering College, Thrissur, Calicut University, Kerala, India. http://gectcr.ac.in/
Specialization	Electrical and Electronics
Title of Thesis	Demand Assessment and Distribution System Design of a Rural Village
Term Period	Full Time, 4 years (1991-1995)

EMPLOYMENT HISTORY				
Institution (Place of work)	Period		Job Title	Nature of Work
	From	To		
University of Technology and Applied Sciences, Sultanate of Oman	2022	As on Date	Asst Professor (Civil Status Grade C)	Teaching, Research and Administration
MES College of Engineering, Kuttippuram Kerala, India.	2016	On Leave	Professor and Head of the Department	Teaching & Administration
Kerala Technological University Affiliated College	2015	2016	Full Time Director	Academics and Administration.
University of Hawaii, Manoa, USA www.manoa.hawaii.edu	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 www.ait.asia	2008	2010	Full Time Doctoral Research Scholar	Research
Ibra College Of Technology, Sultanate of Oman www.ict.edu.om	2006	2008	Lecturer in Electrical Power	Teaching/Research/Consultancy
Galfar Engineering and Contracting Company, Oman www.galfar.com	2005	2006	Design Engineer	Power system design (Kauther gas plant in Oman)
MES College of Engineering, Kuttippuram Kerala, India. www.mesce.ac.in	2002	2005	Asst Professor	Teaching

Amrita Deemed University, Ettimadai, Coimbatore, India <u>www.amrita.edu</u>	1998	2002	Lecturer in Electrical and Electronics	Teaching/Research/Consultancy
SOFTWARE PROFICIENCY				
1. MATLAB 2. ETAP 3. PSCAD 4. POWER WORLD 5. UWPFLOW	6. PSAT 7. PSSE, PST 8. PSIM 9. MAT Power 10. Dig Silent 11. Fortran, Pascal, C.			
SUBJECTS TAUGHT				
<ul style="list-style-type: none">• Computer aided Power System Analysis• Power Generation Systems• 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.• Cybersecurity.• Renewable Energy	<ul style="list-style-type: none">• Power system Dynamics and Stability• Power System Design and Operation• 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			
Ongoing Ph.D Students and Their Research Theme				
Harikrishnan G R	Machine learning based controller for smart energy management in smart grid.			
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.			
BOOKS PUBLISHED				

- A Sub Quality Manual for the Electrical and Electronics Laboratories for colleges of technology under ministry of manpower in **Sultanate of Oman** was published by the ministry for adapting to all colleges of technology in Sultanate of Oman.

COURSE DEVELOPMENT ACTIVITIES

1. Have set up Power system laboratory **in Ibra College of Technology** (ICT) Ibra, Oman. The power and energy division of ICT is equipped with state of Art **Power System Simulator from TERCO Sweden**.
2. Developed a power system Toolbox in Matlab for the computer aided power system analysis laboratory in Amrita Deemed university, Coimbatore, India.

SELECTED INVITED LECTURES

Title of paper or presentation	Name of conference/ seminar	Place	Date
IEEE Membership and benefits	IEEE – UTAS Suhar Branch Invited talk	UTAS - Suhar	6 th March, 2025
Renewable Integration - Challenges	Faculty Workshop series – UTAS, Al - Musannah	Online	18 th February, 2024
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
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
Soft Computing Framework for Smart Grid	Faculty Development Program on Research Perspectives in Energy, Environment and Conservation	SCMS cochin	15 th July, 2022
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
Soft Computing Framework for Smart Grid	Keynote speech for the international conference	SCMS cochin	15 th July, 2022
Smart Grid and Interdisciplinary Research Possibilities	Faculty Development Program	University of Technology and Applied Sciences - Suhar	25 th May, 2022

Energy Management for Disaster Management	KTU Sponsored FDP	MES Kuttippuram	10 th September, 2021
Career Opportunities in Computer Science	Webinar in Zoom online platform	MES Community College, Cochin	21st May.2020
PEV and its applications in Smart Grid.	STTP on ELECTRIC & HYBRID VEHICLE” in MES Kuttippuram.	MES, Kuttippuram.	16 th July, 2019 to 20 th July 2019.
Smart Grid, Micro Grid/IOT Technologies -Case studies	MES - AIT Collaborative International Research Workshop on Green Energy for sustainable development of Kerala	MES, Kuttippuram	23rd March, 2019
Advanced Power System SCADA and Security – LDC, DA, EMS, SCADA Protocols, SCADA Security.	ADB/WB Capacity Development Training Programme on Advanced SCADA and Security.	AIT Bangkok	21st November to 28th November, 2018
Solar Power Generation Basics	ANERT Training Programme on Solar.	MES Kuttippuram.	24 th September, 2018.
IT enabled teaching learning	Calicut University staff training programme	Calicut University, India	25 th July, 2018
Modern Trends and Techniques in Digital Teaching	MES Training Academy - Faculty Development Programme	Fathima Gafoor MES Womens College, Calicut	22 nd June ,2019
Modern Trends and Techniques in Teaching – Learning	MES Training Academy - Faculty Development Programme	MES Ponnani	15 th December ,2018
Modern Trends and Techniques in Teaching – Learning	MES Training Academy - Faculty Development Programme	MES Mampad, Kozhikode	1 th December ,2018
Grid Stability Issues in Smart Grid.	FDP on Distributed Generation and Smart Grid	MES Kuttippuram	20 th July, 2018
Power Quality Issues in Smart Grid.	FDP on Distributed Generation and Smart Grid	MES Kuttippuram	18 th July, 2018
Modern Trends and Techniques in Teaching – Learning.	MES Training Academy - Faculty Development Programme.	Amal English School, Kunnankulam	30 th May ,2018
Modern Trends and Techniques in Teaching – Learning.	MES Training Academy - Faculty Development Programme.	MES Campus School, Kuttippuram	29 th May ,2018
Modern Trends and Techniques in Teaching – Learning.	MES Training Academy - Faculty Development Programme.	Amal English School, Kunnankulam	26 th May ,2018

Modern Trends and Techniques in Teaching – Learning.	MES Training Academy - Faculty Development Programme	Ansar College, Perumpilavu	17 th May ,2018
Modern Trends and Techniques in Teaching – Learning.	MES Training Academy - Faculty Development Programme	MES school, Kunnakkara	5 th May ,2018
Modern Trends and Techniques in Teaching – Learning.	MES Training Academy - Faculty Development Programme	MES College of Engineering and Technology, Kunnakkara	28 th April ,2018
Modern Trends and Techniques in Teaching – Learning.	MES Training Academy - Faculty Development Programme	MES Arts and Science College Marampilly	27 th April ,2018
Modern Trends and Techniques in Teaching – Learning.	MES Training Academy - Faculty Development Programme	MES Arts and Science College, Kunnakkara	19 th April, 2018
Modern Trends and Techniques in Teaching – Learning.	MES Training Academy - Faculty Development Programme	MES Arts and Science College Edathala	21 st April, 2018
ICT Enabled Teaching Learning.	MES Training Academy -FDP	MES Arts and Science College, Erumeli	14 rd March, 2018
ICT Enabled Teaching Learning.	MES Training Academy -FDP	MES Arts and Science College Erattupetta	13 rd March, 2018
Power Quality Issues in Grid Connected Inverter.	ANERT KSEB Engineers Training Programme on Solar Grid Connected Inverter.	MES Kuttippuram	8 th March, 2018
Key Note Speech for EEE Department Inauguration.	Nirmala Engineering College, Thrissur, Kerala, India.	Meloor, Chalakkudy, Thrissur	3 rd March, 2018
Power Quality Issues in Grid Connected Inverter.	ANERT KSEB Engineers Training Programme on Solar Grid Connected Inverter.	MES Kuttippuram	28 th February, 2018
Design and Engineering – Tools and Softwares	KTU Sponsored FDP on Design and Engineering using FAB-LAB	MES Kuttippuram	21 st December, 2017
Renewable Integration to Kerala Grid, Challenges and Possibilities.	Keynote Speech for International Conference- ICSEE-2017	Govt. Engineering College, Kannur	15 th December, 2017
Renewable Energy Scenario in Asia	KSCSTE Sponsored Workshop on Recent Advances in Renewable Energy Technologies & Smart Micro-grids.	MES Kuttippuram	14 th December, 2017
Grid Modelling and Analysis Using PSAT	KSCSTE Sponsored National Workshop on Recent Advances in Renewable	MES Kuttippuram	12 th December, 2017

	Energy Technologies & Smart Micro-grids.		
Introduction to PSAT	Invited Talk – EEE Dept. MES College of Engineering, Kuttippuram	MES Kuttippuram	3 rd October, 2017
Energy Management for Disaster Management	National Seminar on Disaster Management	MES Kuttippuram	13 th August, 2017
Grid Modelling and Analysis Using PSAT	One Day Workshop	Amrita Deemed University	6 th August, 2017
Renewable Integration- Challenges and Possibilities	Keynote speech for the National conference	Mohandas College of Engineering, Trivandrum, Kerala	19 th April, 2017
Renewable Integration- Challenges and Possibilities	Keynote speech for the National conference	Muthoot Institute of Technology, Ernakulam, Kerala	23 th March, 2017
Green Engineering	Invited Lecture on NSS Week	MES College of Engineering, Kuttippuram.	13 th March, 2017
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
ICT Enabled Teaching Learning	FDP on Teaching/Learning Skill Development	MES College of Engineering. Kuttippuram	21 st January, 2017
Matlab Programming and applications – Invited talk	National Workshop	MES College of Engineering. Kuttippuram	31 st October, 2016
International students day	Invited talk	MES College of Engineering. Kuttippuram	17 th October, 2016
“Career Building – Hopes and Possibilities”	Final year Students – Motivational Talk	MES College of Engineering, Kuttippuram.	7 th September, 2016
Sustainable Engineering	Invited Lecture on Hiroshima Day	MES College of Engineering, Kuttippuram.	9 th August, 2016
Renewable Integration to Kerala Grid, Challenges and Possibilities.	Keynote Address in the International Conference on System Energy and Environment.	GEC, Kannur	5 th August, 2016
“Career Building – Hopes and Possibilities”	Students Programme organized by IEEE, Woman in Engineering	MES College of Engineering, Kuttippuram.	27 th July, 2016.

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
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
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.
How to generate publications and get funded projects.	International Seminar on Engineering Research.	Thejus Engineering College, Thrissur	22 nd , April, 2016.
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.
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
Under Standing the Barriers in Renewable Energy Utilization in Kerala.	Eighth K Unnikrishnan Memorial Lecture, Indian Institute of Chemical Engineers	Indian Institute of Chemical Engineers, Kochi Regional Centre, Kochi, India	14 th January, 2016
Kerala Power System- Smart Grid	Special Invited Lecture	IES College of Engineering, Thrissur, India	11 th Jan, 2016
Modeling of Renewable Integrated Systems.	Special Invited Lecture	Saintgits College of Engineering, Kottayam, India	21 th November, 2015
Renewable Integration to Kerala Grid.	Special Invited Lecture	Sree Buddha College of Engineering, Pattoor, Nooranad, Alappuzha, India	15 th October, 2015
Stability and Control of Microgrid	Faculty Development Programme	Govt. Engineering College, Thrissur	30 th July 2015
Demand Response, Optimization and Fault Prediction in Smart Grid – Modeling and Analysis.	Special Invited Lecture	National University of Singapore, Singapore	1st July, 2015

Smart Grid Modeling and Analysis.	Smart Grid Workshop organized by university of Hawaii.	University of Hawaii, Manoa, United States	13-17 th April, 2015
Demand Response, Optimization and Fault Prediction in Smart Grid – Modelling and Analysis.	Special Invited Lecture	Asian Institute of Technology, Bangkok, Thailand.	19 th January, 2015
Global Power Scenario and Future Power System.	Special Invited Lecture	IES College of Engineering, Thrissur, Kerala, India	12 th January, 2015
Global Power Scenario and Challenges in Electrical Power System.	Special Invited Lecture.	Thejas Engineering College, Thrissur, Kerala, India.	31 st December, 2014
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
Renewable Integration to Kerala Grid	Faculty Development Programme	Saintgits College of Engineering, Kottayam	1 st May, 2014
Operation and Maintenance of Steam Power Plant	Capacity Training programme of Asian Development Bank.	Asian Institute of Technology, Bangkok	28 th October to 8 th November, 2013,
Modeling, Simulation and Analysis of FACTS and Custom Power Devices in Power System	Faculty Development Programme on Application of Power Electronics under World Bank Aid	Govt. Engineering College, Thrissur	10 th October, 2013
Modeling of Power System using various softwares	Faculty Development Programme on Modeling and Simulation of Power System components	Amrita Deemed University, Coimbatore	11 th July, 2013
Artificial Intelligence and Technology	IT Association Inauguration	MES College of Engineering, Kuttippuram.	4 th July, 2013
Influence of Grid Connected Wind Farm in Power System.	Wind Energy PG Course	Amrita Deemed University, Coimbatore.	18 th April, 2013
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
Renewable Integration to Kerala Grid – Challenges and Possibilities	KSEB Engineers Association national seminar	Hotel Mothi Mahal, Thrissur.	23 rd , February, 2013

Power System Protection and Relay Coordination	Capacity Development Training of Asian Development Bank	Asian Institute of Technology, Bangkok, Thailand	Jan 16th to 25th, 2013
Digital Teaching	Calicut University staff training programme	Calicut University, India.	31 st October, 2012
Energy Trends and Challenges	Electrical Department Association Inauguration – Key note address	Sreepathy Engineering College, Kootanad.	18 th October
IT enabled teaching learning for engineering applications	Calicut University staff training programme.	Calicut University, India.	12 th October, 2012
Power System SCADA and SMART Grid	National Seminar on Power System Operation and Control.	Thejus Engineering College, Thrissur.	29 th September 2012
Power System Softwares	Training programmes for M.Tech power system students	Mohandas College of Engineering, Trivandrum	10 th August, 2012
IT enabled teaching learning for engineering applications	Calicut University staff training programme	Calicut University, India	4 th August, 2012
Relay and Protection –Advance	Capacity Training programme of Asian Development Bank	Hotel Residency, Chennai	July 8 th to 19 th , 2013
Operation and Maintenance of Generator	Capacity Training programme of Asian Development Bank	Hotel Joys Palace, Thrissur, Kerala, India	March 18 th to 27 th , 2013
Power System SCADA	Capacity Training programme of world Bank	Asian Institute of Technology, Bangkok, Thailand	June 10th to 15th, 2012
Grid Station Operations and Management	Capacity Training programme of world Bank	Asian Institute of Technology, Bangkok, Thailand	June 18th to 19th, 2012
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
Power Electronics in Power Systems- Controllers.	ISTE sponsored short term training programme	Jyothy Engineering College, Thrissur	Feb 2 nd 2012
Wind Farm Stability Issues	Wind Energy PG Course	Amrita Deemed University, Coimbatore	Nov 2011
Matlab Realization of Computational optimization techniques for engineering applications	Institution of Engineers All India Seminar	Jyothy Engineering College, Thrissur	August 2011

Computer Applications in Power System	For Faculty members and students of Jyothy Engineering College, Thrissur	Jyothy Engineering College, Thrissur	March 2011
Introduction to Matlab	For IEEE hub programme	Jyothy Engineering College, Thrissur	February 2011
Application Softwares in Electrical Power Systems	For EEE Faculty and students, IES Engineering College, Thrissur	IES Engineering College, Thrissur	June 2010
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
Industry Liaison Activities - Electrical And Electronics Industries in Oman	Faculty development programme on Industry Liaison Activities	Ibra College of Technology, Ibra, Sultanate Of Oman	Dec 2006
“Power System Automation and SCADA”	One-week workshop on Introduction and applications of PLC	MES College Of Engineering, Kuttippuram, Kerala, India	August 2005
“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
“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
“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
“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
“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

Solar Vehicles: Design and Implementation	Annantgyan, India	23 rd to 28 th September, 2024
Practical Aspects of ICT Tools and Online teaching in Current Scenario	Research Foundation of India	2 – 11 th September, 2024
Annual Leadership Forum (Eye on the Future): Financial Sustainability of Universities.	Musandam, Sultanate of Oman	February 27, 2024, to March Ist, 2014
Realtime Applications of Opel RT for Smart Grid	VIT Vellore, TN (Online Mode)	17 th to 21 st October, 2022
Realtime Applications of Opel RT for Power Electronics Smart Grid and Microgrid	VIT Vellore, TN (Online Mode)	3 rd to 7 th August, 2020
Future Kerala Educational Summit	The Hotel Crown Plaza, Cochin	28/06/2019
Future Kerala Educational Summit	The Hotel Crown Plaza, Cochin	29/06/2018
Post-Doctoral Research – 2 Weeks	School of Energy Asian Institute of Technology, Bangkok, Thailand	28th May to 11th June, 2017
Future Kerala Educational Summit	The Hotel Crown Plaza, Cochin	21/06/2017
ICT India- VMWare Academic Meet	The hotel Beaumonde The Fern, Cochin	27/09/2016
KTU workshop on Collaborative Research	Kerala Technological University, Trivandrum	8/09/2016
APEC Workshop on Development and Application of Solar Technologies and Products.	Kunming, China	Aug 2016
Workshop on Energy sharing in Asia (Sponsored by Norwegian Ministry)	Asian Institute of Technology, Bangkok, Thailand	Aug 2009
Workshop on Energy Environment /Partnership in Mekong Region (Sponsored by Ministry of Foreign Affairs Finland)	Asian Institute of Technology, Bangkok, Thailand	Oct 2008

Faculty development programme on Industry Liaison Activities	Ibra College OF Technology, Sultanate of Oman	Dec 2006
Research Methodology Workshop	Ibra College OF Technology, Sultanate of Oman	June 2006
One-week training programme on Networking with GNU Linux	MES College of Engineering, Kuttippuram, Kerala India	Sept 2005
One-week short term training programme on Introduction and applications of PLC	MES College of Engineering, Kuttippuram, Kerala, India	August 2005
One-week training programme Power System SCADA and EMS	Power system Training Institute, Bangalore, India	May 2 005
One day national seminar on Institutional development and knowledge networking	National Institute of Technology, Calicut, India	Dec 2003
National workshop on “GNU Linux Technologies for Generation Next “	MES College of Engineering, Kuttippuram, Kerala, India	Sept-Oct 2003
One-week short term training programme on Computer Aided Power System Solutions	NSS College of Engineering, Palghat, Kerala, India	August 2003
Two-week training programme on applications softwares in electrical engineering	Coimbatore Institute of Technology, Coimbatore, Tamilnadu, India	Nov 2001
One day training on Electrical system for a tyre industry	Appollo Tyres, Perambra, Thrissur, Kerala, India	Dec 2001
Two-week Training Programme on Aircraft Electrical Systems	Hindustan Aeronautics Bangalore, India	Nov 2000
Training Programme on Intelligent Systems	CUSAT, COCHIN, Kerala, India	Oct 2000
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 – 3	

		Ongoing – 4, Kerala Technological University (Kerala)
LABORATORIES DEVELOPED		
<ul style="list-style-type: none"> • Electrical Power Systems II for Calicut University Syllabus • Computer Aided Power System Analysis using Matlab • MATLAB Experiments in Power Systems. 		
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
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.	22 to 23 rd March, 2019
MES Training Academy - Inauguration	MES College of Engineering, Kuttippuram.	15 th February, 2018
KSCSTE Sponsored National Workshop on Recent Advances in Renewable Energy Technologies & Smart Micro-grid	MES College of Engineering, Kuttippuram.	11 to 15 th December, 2017

MES Innovation Centre - Inauguration	MES College of Engineering, Kuttippuram.	18 th August, 2017	
Staff Development Programme on Teaching-Learning Skill Development	MES College of Engineering, Kuttippuram.	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.	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	April - 2016	
International Seminar on Engineering Research	Thejus Engineering College, Thrissur	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	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	August - 2005	
“Machinfinty – 2001” a national level technical symposium held at Amrita University	Coimbatore, India	Sept 2001	
“Computer aided power system analysis “National level Workshop for the Engineering College Faculty in Amrita Deemed University	Coimbatore, India	Jan 2001	
INTERNATIONAL ACADEMIC CONSULTANCY			
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 Resources” 19 – 28 Nov 2017, India and Srilanka.	Asian Institute of Technology, Bangkok	20000	Consultant and Coordinator
Smart Grid Modelling and Control for Island Utilities – 6th and 7th 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	
NATIONAL 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 ADB/WB 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">• 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.			
AWARDS AND HONOURS			
<ol style="list-style-type: none">1. Advisory Committee Member: IEEE - International Conference on Futuristic technologies in Control Systems & Renewable energy - 2024 (ICFCR)2. Editorial Board Member, Naresuan University Engineering Journal (NUEJ), Thailand.3. Scientific Committee Member, International Seminar on Renewable Energies, University M'HAMED BOUGARA – Boumerdès, 19-20 December 20174. United States - Department of Energy (DOE)- University of Hawaii, Post-Doctoral Fellowship Award in 2014.5. Asian Institute of Technology Fellowship for Doctoral studies.2008			

6. Recognized Reviewer, Green Druyter, www.degruyter.com
7. Syllabus Committee Member, B.Tech, Kerala Technological University. (2015-2018)
8. IEEE Climate Change Technology Subcommittee member.2011
9. IEEE Working Group on Distributed Resources Integration member. 2011
10. Organizing Committee member “THE 15TH IEEE PES ASIA-PACIFIC POWER AND ENERGY ENGINEERING CONFERENCE 2023 (APPEEC 2023), 6th - 9th December 2023, Chiang Mai, Thailand
11. Technical program committee member “The international conference and exhibition on power and energy systems: Issues and Prospects for Asia” ICUE-2011, Bangkok, Thailand.
12. Best Paper Award for the paper entitled “GA Based Optimal FACTS Controller for Maximizing, Loadability with Stability Constraints”, ICETEM2014, India.
13. 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.
14. Reviewer of various national and international journals and conferences including IEEE Transactions on Industrial Automation and Control, Iranian Journal on Electrical and Computer Engineering.
15. Consultant and Visiting Faculty, Extension Programmes, Asian Institute of Technology, Bangkok.
16. Approved Ph.D supervisor , APJ Abdul Kalam, Kerala Technological University, Kerala
17. Approved Ph.D supervisor ,Anna University, Tamilnadu, India
18. Editorial Board Member, Canadian Journal on Electrical and Electronics Engineering, ISSN: 1923-0540 (2012-2015)
19. Doctoral Committee member, TEQIP, AICTE, India.
20. Received a certificate of Appreciation for successfully driving the department for NBA Accreditation.
21. Licensed Electrical Consultant, Kerala, India.

MEMBERSHIP OF PROFESSIONAL ORGANIZATIONS

Senior Member – IEEE

- Member, IEEE-CSI (Computer Society of India)
- Member, IEEE- PES (Power and Energy Society)
- Member, Indian Society of Technical Education (ISTE)
- Member, International Association of Engineers (IAENG)
- 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,

Energy Field of Study, Asian Institute of Technology, P O Box 4, Klong Laung, Pathumthani-12120, Thailand. <u>Tel:(+66-2) 524-5426 (D), (+66-2) 524-5407(Secretary)</u> Fax: (+66-2) 524-5439 Email: jgsingh@ait.ac.th www.serd.ait.ac.th	Energy Field of Study, Asian Institute of Technology, P O Box 4, Klong Laung, Pathumthani-12120, Thailand. <u>Tel:(+66-2) 524- 6074 (D),(+66-2) 524-5407(Secretary)</u> Fax: (+66-2) 524-5439 Email: ongsakul@ait.ac.th www.serd.ait.ac.th
(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	

Publications

Books	Books – Editorial	Book Chapters	International Study Reports	Journals	Conferences
1	2	1	1	30	63

Books

1. J G Singh, Rupendra Pachuri, Sasidharan Sreedharan “Forecasting Methods for Renewable Power Generation” Wiley - Scrivener publishing. 2024. (Proof Reading Completed)

Books - Editorial board member

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

Book Chapter

4. 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

International Study Reports

5. 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. AID – 486 – C -16-00001

Journals

6. 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. (Impact Factor: 3.3)
7. Balaji S K, Awadh Al Mamari, Sasidharan Sreedharan, Parmal Singh Solanki, 2024 “Microgrid Sustainability – A new business model for Oman” GMSARN International Energy Journal, Asian Institute of Technology, Bangkok.
8. 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)-2024. (Accepted)
9. Sasidharan Sreedharan, Parmal Singh Solanki, Magdy S Abdelfatah and I Made Wartana, 2024 “An approach for loss minimization and capacity savings in residential microgrid networks in Oman” Indonesian Journal of Electrical Engineering and Computer Science.
10. 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
11. 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
12. 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.

13. 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**.
14. 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.
15. Sasidharan Sreedharan, et. al, 2019 "Power System Loading Margin Enhancement by Optimal STATCOM Integration - A Case Study" Elsevier Journal: Computers and Electrical Engineering, Impact Factor 2.189.
16. 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.
17. 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
18. 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.
19. 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
20. 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
21. 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
22. 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.
23. 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.

24. 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
25. 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
26. 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.
27. 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
28. 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
29. 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
30. 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.
31. 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
32. 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.
33. 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

34. 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
35. 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

36. 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.
37. 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.
38. 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.
39. 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.
40. 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.
41. 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)
42. 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
43. 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
44. Harikrishnan G R , Sasidharan Sreedharan *et al.*, “Demand Supported Energy Managament framework for residential users” IEEE International Conference on Power Electronics, Smart Grid and renewable energy (PESGRE - 2023)

45. 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.
46. 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)
47. 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)
48. Princy U, Sasidharan Sreedharan and Jaseena S., Optimum Energy Management Strategy for Renewable Integrated Microgrid IEEE International Conference on Intelligent Computing, Instrumentation & Control Technologies (ICICT-2017).
49. 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)
50. 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).
51. 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).
52. 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).
53. 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).

54. 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).
55. 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).
56. 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.
57. 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.
58. 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.
59. 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.
60. Vishnu J, Rishi Menon, Tibin Joseph, Sasidharan Sreedharan, Chittesh V C, Vipin das P, Sebin Joseph, "A Strategy for Optimal Loading Pattern of A Typical Power System - A Case Study" ICAGE 2014, Mar Baselios College of Engineering & Technology, Trivandrum, 17-18 December - IEEE Conference.
61. Vishnu J, Rishi Menon, Tibin Joseph, Sasidharan Sreedharan, Chittesh V C, Vipin das P, Sebin Joseph, "GA Based Optimal FACTS Controller for Maximizing Loadability with Stability Constraints", ICETEM2014, SNGCE, 30,31 December 2014 (**Best Paper Award**).
62. Chittesh V C, Elizabeth Rajan, Sasidharan Sreedharan, Tibin Joseph, Sebin Joseph, Vipin Das P, Vishnu J, " PSO Based Optimal Controller for Maximizing PV Penetration " ICETES '14, MACE, December 15-16

63. Chittesh V C, Elizabeth Rajan, Sasidharan Sreedharan, Tibin Joseph, Sebin Joseph, Vipin Das P, Vishnu J, "PSO Based Optimal Control for Maximizing PV Penetration" ICPCES-2014, MNIT Allahabad December 26-28, 2014.
64. Chittesh V C, Dr. Sasidharan Sreedharan, Tibin Joseph, Vipin Das P, Sebin Joseph, Vishnu J, "PSO Based Optimal Allocation Of Solar PV Generators To Maximize Instantaneous Pv Penetration " 27th Kerala Science Congress on January 27th – 30th 2015.
65. Anju G Pillai, Thomas P C, Tibin Joseph and Sasidharan Sreedharan, "*Transient Stability Analysis of Wind Integrated Power Systems with Storage Using Central Area Controller*" IEEE sponsored International Conference on Microelectronics, Communication and Renewable Energy (AICERA 2013: ICMiCR) at Amal Jyothi College of Engg, Kanjirapally, Kerala on June 4-6, 2013
66. Jasmy Paul, Tibin Joseph & Sasidharan Sreedharan, "*PSO Based Generator Real Power Output Management for Congestion Relief*", 2013 IEEE International Multi Conference on Automation, Computing, Control, Communication and Compressed Sensing, iMAc4s 201, Kerala, On 22 - 23 March 2013
67. Tibin Joseph, Sasidharan Sreedharan, "Optimal Placement and Setting of FACTS Devices for Improving the Performance of Power Distribution System using PSO", Kerala Science Congress, January 30, 31 2013, Trivandrum, Kerala
68. Thomas P C, Sreerenjini K, Tibin Joseph and Sasidharan Sreedharan, "*Placement of STATCOM in a wind integrated power system for improving the loadability*" IEEE PES sponsored International Conference on Power Energy and Control, ICPEC 2013 at PSNA College of Engineering, Coimbatore on February 6-8, 2013
69. Jasmy Paul, Tibin Joseph, Sasidharan Sreedharan "*PSO Based Generator Real Power Output Management for Congestion Relief*" International Engineering Post Graduate Research Conference ENGGPOS 2013, 1-2 February 2013, Coimbatore, India.
70. Thomas P C, Tibin Joseph and Sasidharan Sreedharan, "*Placement of STATCOM in a wind integrated power system with storage for improving the loadability of the system*" IEEE sponsored 7th International Conference on Intelligent Systems and Control, ISCO 2013 at Karpagam College of Engg, Coimbatore on January 4- 5, 2013
71. Sreerenjini K, Thomas P C, Anju G Pillai, V I Cherian, Tibin Joseph and Sasidharan Sreedharan, "*Optimal Power Flow Analysis of Kerala Grid System With Distributed Resources*", IEEE sponsored International Conference on Green Technologies- ICGT12, Thiruvananthapuram, Kerala, India Dec 18-20, 2012

72. Joseph. T, Xavier. S, C.S. Chitra & Sasidharan Sreedharan, “*PSO based optimal placement of Fuel Cell for Maximizing Grid Performance*”, *International Conference in Renewable Energy Utilization (ICREU) (605-610), CIT, Coimbatore 2012*
73. Xavier. Sini., S.C. Chitra, Joseph.Tibin & Sasidharan Sreedharan, “*An Integrated Approach for optimal Placement of Fuel Cell DG and SVC for maximizing the grid performance by using PSO*”, IEEE-PES-GM-2012, Santiago, CA, USA (Accepted)
74. Jasmy Paul, Tibin Joseph, Sasidharan Sreedharan " *PSO Based Optimal Generator Rescheduling in A Large Electric Network for Congestion Relief*" International Conference on Global Innovations in Technology and Sciences, ICGITS 2013, 1-2 April 2013, Saintgits, Kerala, India
75. E G Nithuparvathy, Tibin Joseph, Sasidharan Sreedharan, Jose Jacob. (2012). “*Impact of Mass Inertia in the system response of large wind integrated power system*”, ICGT-12, IEEE International Conference on Green Energy Technologies Trivandrum, India.
76. Anju G Pillai, Thomas P C, Sreerenjini K, Sarin Baby Tibin Joseph and Sasidharan Sreedharan " *Transient Stability Analysis Of Wind Integrated Power Systems With Central Area Controller*" International Conference on Global Innovations in Technology and Sciences, ICGITS 2013, 1-2 April 2013, Saintgits, Kerala, India
77. Anna Baby, Dr. Jaimol Thomas, Tibin Joseph and Sasidharan Sreedharan “*Analysis of Voltage Collapse in the Kerala Power Grids*” ICGT-12, IEEE International Conference on Green Energy Technologies Trivandrum, India. (Submitted)
78. Jasmy Paul, Tibin Joseph and Sasidharan Sreedharan “*Generator Rescheduling using PSO Considering Congestion relief*“, ICGT-12, IEEE International Conference on Green Energy Technologies Trivandrum, India.
79. Maya B, Sasidharan Sreedharan, Jai Govind Singh, 2012 on “*An Integrated Approach for the Voltage Stability Enhancement of Large Wind Integrated Power Systems*” IEEE PES International Conference, Epsicon 2012, India
80. Sasidharan Sreedharan, Weerakorn Ongsakul, Jai Govind Singh, I Made Wartana and Kittavit Buayai. 2011 on “*PSO Based Tuning of FACTS Controllers for Maximizing the Wind Energy Penetration in Power Systems*”, IEEE- PES ISGT International Conference, Kollam, Kerala India.
81. I Made Wartana, Jai Govind Singh, Weerakorn Ongsakul, Kittavit Buayai and Sasidharan Sreedharan. 2011." “*Optimal Placement of UPFC for Maximizing System Loadability and Minimize Active Power Losses by NSGA-II.*” The International Conference & Utility Exhibition 2011 on Power and Energy Systems: Issues and Prospects for Asia 28-30 September 2011, Pattaya City, Thailand

82. Sreedharan, Sasidharan, Weerakorn Ongsakul, and I Made Wartana. 2011." Development of PSO based control algorithms for maximizing wind energy penetration" IEEE General meeting, Detroit, USA.
83. Sreedharan, Sasidharan, Weerakorn Ongsakul, and I Made Wartana. 2010." *Loss Minimization and Capacity Saving in Residential Networks - An AIT Case Study.*" PEA-AIT International Conference on Energy and Sustainable Development: Issues and Strategies (ESD 2010), Bangkok.
84. I Made Wartana and Sreedharan Sasidharan, 2010." *Optimal placement of TCSC for optimizing system loadability by PSO*" In 2nd Makassar International Conference on Electrical Engineering and Informatics (MICEEI 2010), IEEE Indonesia.
85. Kittavit Buayai, I Made Wartana and Sreedharan Sasidharan, 2010." *A multi objective optimal placement of multi type DG for enhancement of power system performance by NSGA-II*" In fifth GMSARN International Conference 2010, Lao PDR.
86. Sasidharan Sreedharan, I Made Wartana and Kittavit Buayai, 2010." *Multi objective Optimal Placement of Multi-Type FACTS Devices and DG for Enhancement of Power System Performance by NSGA-II* "2010 IEEE Conference on Innovative Technologies for an Efficient and Reliable Electric Supply, MA, USA.
87. Sasidharan Sreedharan, I Made Wartana and Kittavit Buayai, 2010 "Comparison of various types of wind turbines for maximization of wind penetration" IEEE International student paper context Minneapolis, USA
88. Tibin Joseph, Sasidharan Sreedharan, "Optimal Placement and Setting of FACTS Devices for Improving the Performance of Power Distribution System using PSO", Kerala Science Congress, January 30-31, 2013, Trivandrum, Kerala
89. Preethi K. P Sasidharan Sreedharan and Jayan M V, "Reactive Power Optimization in wind integrated power systems "NAIMSAP – 2012, National Conference on Advances in Manufacturing Systems and Processes 2012, GEC Thrissur.
90. E G Nithuparvathy, Sasidharan Sreedharan, Jose Jacob, "Impact of Mass Inertia in the system response of large wind integrated power system", NAIMSAP – 2012, National Conference on Advances in Manufacturing Systems and Processes 2012, GEC Thrissur.
91. C.S. Chitra, Joseph. T, Xavier. S & Sasidharan Sreedharan, "Optimal Placement of TCSC For Improving the Performance of Power System", Natcon 2012(208-213), Second National Technological Congress, Kerala 9-10 February 2012
92. Joseph. T, C. S. Chitra, Xavier. S & Sreedharan. S. (2012). "PSO Based Optimal Placement and Setting of FACT Devices for Improving the performance of Power

distribution System", NCPSE 2011, Amrita Deemed University, Coimbatore (Best paper Award)

93. Tibin Joseph and Sasidharan Sreedharan, "*Network Reconfiguration using PSAT for loss reduction in distribution system*", National conference on VLSI architectures for image and video processing systems on November 16th, 2011 at METs School of Engineering, Trichur, Kerala, India
94. Sreenath, Sasidharan Sreedharan, Nowfal S, 2005." *Energy Efficient motors - A survey on recent trends and possibilities*" National Conference on "Safety and Quality, Institution of Engineers, Thrissur January '05, India.
95. Sindhu Thampatty K. C and Sasidharan Sreedharan, 2003." *Automatic isolation of radial feeders – A laboratory model*" National conference on power conversion and industrial controls (PCIC-2003), IEEE-PES Kerala, NSS Palghat, India.
96. Sasidharan Sreedharan, 2005,"*Weak Bus identification in power systems*" National conference on power conversion and industrial controls (PCIC-2005), NSS Palghat, India.
97. Sobha M and Sasidharan Sreedharan, 2003,"*Modern Aspects of FACTS and its applications*" National conference on FACTS and its applications, KCT Coimbatore, India.
98. Sasidharan Sreedharan, 2004," PC based Distance Protection Scheme – A Laboratory model" National Conference on power conversion and industrial controls (PCIC – 2004), NSS Palghat, India.
