## **Faculty Profile**

- 1. Name of the Faculty: Dr.S.P.Mangaiyarkarasi
- 2. Department and Designation: EEE, Assistant Professor
- 3. Date of Joining: 26.08.2009
- 4. Faculty ID: TF0070
- 5. E-mail Address: mangaisowmeya@gmail.com
- 6. Date of Birth: 30.10.1974
- 7. Qualification:

Degree	Institution	Year
B.E (EEE)	AlagappaChettiar College of Engineering And Technology, Karaikudi	1996
M.E (Power Systems)	Annamalai University, Chidambaram	2004
Ph.D (Electrical)	Anna University, Chennai	2015

- 8. Specialization: Power System Engineering
- 9. Professional Experience: -

Position	Organisation	Period
Lecturer	Annai Vellankanni Polytechnic,	1997-1998
	Panruti	
Lecturer	Dr.NNCE, Tholudur	1998-2000
Lecturer	BCET, Karaikal	2000-2002
Assistant Professor	Anna University, BIT Campus,	2009-2014
	Tiruchirappalli	
Assistant Professor	University College of	2014 onwards
	Engineering, Panruti	

- 10. Research Guidance: NIL
- 11. Awards and Honours : -NIl
- 12. Sponsored Projects: NIL
- 13. Patents: NII
- 14. Publications
- (i) Internationally Refereed Journals: 05

## **Publications in Journal:**

1. S P Mangaiyarkarasi, T SreeRenga Raja,; "Novel Analytical Study on Voltage Instability Mitigation Using Multiple Severity Functions by Optimal Placement of SVC in N-2 Contingency Analysis Using Gravitational SearchAlgorithm" WSEAS Transactions on Power Systems, ISSN/E-ISSN : 1790-5060 / 2224-350X, Volume 9, 2014, Art. #41, pp. 408-417.

- S P Mangaiyarkarasi, T SreeRenga Raja,; "Optimal Location and Sizing of Multiple Static VAr Compensators for Voltage Risk Assessment Using Hybrid PSO-GSA Algorithm", Arabian Journal for Science and Engineering, Vol. 39, Issue. 11, pp. 7967-7980, 2014,ISSN/E-ISSN : 1319-8025/2191-4281, DOI: <u>10.1007/s13369-014-1339-5</u>
- S P Mangaiyarkarasi, T SreeRenga Raja,; "PSO based Optimal Location and Sizing of SVC for Novel Multiobjective Voltage Stability Analysis during N – 2 Line Contingency", Archives of Electrical Engineering. Volume 63, Issue 4, Pages 535–550, ISSN (Online) 2300-2506, DOI: <u>10.2478/aee-</u> <u>2014-0037</u>, December 2014.
- M.Karthikeyan, T.SreeRenga Raja, S.P.Mangaiyarkarasi., "An Effective Biogeography Based Algorithm for Power System Optimization" International Journal of Applied Engineering Research, ISSN: 0973-4562, Vol.10, No.51, pp.342-347,2015
- Dr. S P Mangaiyarkarasi, Dr. T SreeRenga Raja,; "A Novel Approach for Optimal Location and Sizing of Multi-Type FACTS Devices For Multi- Objective Voltage Stability Optimization Using Hybrid PSO-GSA Algorithm", International Journal Of Advanced Engineering Technology, Vol.VII, Issue II,pp. 623-627, E- ISSN : 0976-3945, April-June 2016.

(iii) International Conferences: 02

- "Multi-objective, Multi-FACTS devices for under voltage severity assessment using hybrid PSO-GSA algorithm" in the International Conference on Emerging Trends in Electrical, Electronics and Communication Systems held at Bharathidasan Institute of Technology, Tiruchirappalli on 24<sup>th</sup> Sep 2016.
- "Enhancement of power Flow and Voltage Stability using UPFC" in the 4<sup>th</sup> International Conference on Engineering, Technology and Science held at Muthayammal Engineering Institutions, Rasipuram on 30<sup>th</sup> March 2017.

(iv) National Conferences: 05

- Reactive power optimization using PSO algorithm" in the National conference held at Sri Ranganathar Institute of Engg and Tech, Coimbatore on 16<sup>th</sup> Feb,2013
- 2. "Multi-objective Optimization for Voltage Stability Analysis using PSO algorithm" in the National conference held at St.Michael College of Engg and Tech, Kalayarkoil on 16<sup>th</sup> March, 2013.
- "Reactive Power Optimization using PSO-GSA algorithm for Voltage Stability Analysis" in the National conference held at Annai College of Engineering, Kumbakonam on 6<sup>th</sup> April, 2013.

<sup>(</sup>ii) National Journals: - NIL

- "ASA for intelligent control of Power Systems" in the National Seminar held at Sri Manakula Vinayagar College of Engineering and Technology on 26<sup>th</sup> Nov 2004.
- "Risk Index Based under Voltage Contingency Assessment" in the National conference held at University College of Engineering, Patukottai on 8<sup>th</sup> April, 2015.

(V) Books Published with ISBN number/ISSN number: 02

 Dr.T.Sree Renga Raja, R.Thanigaiselvan, S.P.Mangaiyarkarasi, "Basic Electrical and Electronics Engineering" for Anna University, Tiruchirappalli Mechanical Tamil Medium students.
Dr. S.P. Mangaiyarkarasi, " Electrical Machines-I Lab Manual" for IV sem Anna University, Electrical and Electronics Engineering students.

## 14. CONFERENCES/WORKSHOPS/SEMINAR/ SHORT TERM REFRESHER COURSE ATTENDED: 8

- One week TEQIP sponsored FDP titled "Emphasis on Smart Operations and control of Power Markets using power electronic components" organized by the dept of EEE, PEC, from 19<sup>th</sup> to 23<sup>rd</sup> Nov,2012.
- AICTE sponsored FDP titled "Analysis, Operation and Control of Restructured Power Market" organized by the department of EEE, PEC, from 27<sup>th</sup> May to 7<sup>th</sup> June 2013.
- FDP for TEQIP II institutions on "EC 2253- Electromagnetic Fields" at Anna University, Chennai from 23<sup>rd</sup> to 27<sup>th</sup> July 2013.
- 4. One week TEQIP II sponsored FDP on "Recent Trends in Renewable and Non Renewable Energy sources" conducted by the dept of Petrochemical Technology from 26.8.13 to 1.9.2013.
- 5. FDP on "Smart Teaching for the NET Generation" (Basic and Advanced Pedagogy) conducted by NITTTR from 9.12.2013 to 23.12.2013.
- 6. Anna University sponsored one day Hands on Training in "ETAP software and its applications" held at University College of Engineering, Arni on 27.2.15.
- One week Anna University sponsored FDTP on "EE6603- Power System Operation And Control", organized by the dept of EEE, University College of Engineering, Thirukkuvallai from 21<sup>st</sup> to 27<sup>th</sup> Nov,2016.
- AICTE sponsored Two week FDP titled "Smart Grid and Internet of Things (IoT): The Future Energy Delivery System " organized by the department of EEE, Sri RamaKrishna Engineeering College, Coimbatore from 27<sup>th</sup> November to 10<sup>th</sup> December 2017

## 15. CONFERENCES/WORKSHOPS/SEMINAR ORGANISED: 05

- A Two day workshop on "Energy Management and Conservation in Modern Buildings" at BIT campus, Tiruchirappalli from 20<sup>th</sup> to 21<sup>st</sup> Dec, 2010.
- TEQIP II sponsored National Conference on "Issues in Power Quality and Renewable Energy Systems" at BIT campus, Trichirappalli from 29<sup>th to</sup> 30<sup>th</sup> April 2014.

- Third National Conference on "Drastic Innovations in Energy Thrive" organized by SCOPE, Department of Electrical and Electronics Engineering Student's Association, University College of Engineering, Panruti on 24<sup>th</sup> March 2016.
- 4. 5<sup>th</sup> National level Workshop and Symposium organized by the department of EEE, University College of Engineering, Panruti on 27<sup>th</sup> September 2017

16. Other contribution (if any ): -

Signature

HOD

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