

# National Institute of Technology, Tiruchirappalli:

## Performa for CV of Faculty

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### Curriculum Vitae

I am M.VenkataKirthiga, working as Assistant Professor in the department of EEE, NITT since 2006. I completed my undergraduate and post graduate degrees in 2000 and 2004 resp. My areas of interest include Power systems, Distribute Generation, Micro-grids and High Voltage DC Transmission. I possess a total of 13 years of teaching experience and have guided more than 50 projects at UG and PG levels. I have published 4 international and national journals and around 20 conference publications. I have been a reviewer for various journals viz., IEEE – Smart grids, IEEE – Cybernetics and Machine Language, Electric power Components and Systems, International Journal of Emerging Electric Power Systems, International Journal of Energy Conversion and Management – Elsevier as well for IEEE conferences. Also I have been reviewer for Texas Instruments – Analog TI Contest for two years. I am currently serving as Associate Dean (Students' Welfare) for the past one year.



1.	Name	M. VENKATA KIRTHIGA
2.	Designation:	ASSISTANT PROFESSOR
3.	Office Address:	Room No. 113, Department of Electrical and Electronics Engineering, NITT.
4.	Telephone (Direct) (Optional): Telephone : 04312503263                      Extn : 3263	
5.	Email (Primary): <a href="mailto:mvkirthiga@nitt.edu">mvkirthiga@nitt.edu</a>	Email (Secondary) : <a href="mailto:kirthigamv79@gmail.com">kirthigamv79@gmail.com</a>
6.	Field(s) of Specialization:	Power Systems Distributed Generation Micro-grids High Voltage DC Transmission

#### 7. Employment Profile

Job Title	Employer	From	To
Lecturer	Shanmuga Polytechnic, Thanjavur	December 2000	April 2001
Lecturer	Anjalai Ammal Mahalingam Engineering College, Thiruvarur	25.06.2004	05.05.2006
Assistant Professor	National Institute of Technology Tiruchirappalli	15.05.2006	Till date

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### 8. Academic Qualifications (From Highest Degree to High School):

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D.	National Institute of Technology Tiruchirappalli	2014		Distributed Generation & Micro-grids
M. Tech.	National Institute of Technology Tiruchirappalli	2004	I class	Power Systems
B.E.	Bharathidasan University, Tiruchirappalli	2000	I class with Distinction	Electrical and Electronics Engineering
XII	Tamil Nadu State Board	1996	88.5%	Maths, Physics, Chemistry and Biology
X	Tamil Nadu State Board	1994	93%	

### 9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
Member	Ph.D. / M.S. admissions – <b>Department</b>	2006 2016	2009 2017
Member	<b>B.Tech.</b> project evaluation committee	2006	2008
Class/Performance Analysis committee Chair person	Final year and II year B.Tech. ( <b>EEE</b> ) students- <b>Department</b>	2006 2010	2007 2011
Member	<b>B.Tech.</b> comprehensive viva-voce – <b>Department</b>	2007 2016	2009 2017
Faculty Incharge	Electrical Machines Laboratory – <b>Department</b>	2009	2013
Technical Committee Member	Modernization of Electrical Machines Lab – <b>Department</b>	2012	2015
Meeting Coordinator	<b>EEE Department</b>	2012	Till date
Member	NBA committee – <b>Department</b>	2014	Till date
Faculty Advisor	EEE Students Association – Department	July 2014	July 2016
Member	Stock Verification – <b>Institute</b>	2009	Till date
Member	Convocation Committee – <b>Institute</b>	2010	Till date
Member	Students' Grievance Committee – <b>Institute</b>	2014	2015
Member	Internal Complaint's Committee – <b>Institute</b>		
Associate Dean	Students' Welfare for Girls – <b>Institute</b>	October 2015	Till Date

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### 10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To
External Member[Academics] – Board of Studies	Ponnaiyah Ramajayam Institute of Science and Technology	June 2011	May 2012
External Member – Doctoral Committee	Mepco Schlenk Engineering College, Sivakasi, Virudhunagar District	June, 2015	Till date
External Member – Doctoral Committee	Anna University, Pattukottai campus	February, 2016	Till date
External Member – Doctoral Committee	SRM University, Chennai	July, 2016	Till date
External Member – Doctoral Committee	Periyar Maniammai University, Vallam, Thanjavur	January 2016	Till date

### 11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
2015	Distinguished Alumni Award	Anjalai Ammal Mahalingam College of Engineering, Thiruvarur

### 12. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)
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### 13. Details of Academic Work

#### (i) Curriculum Development

- a. Framed the syllabus and offered an elective course **EE633 – Distributed Generation and Micro-grids** for M.Tech. (Power Systems)
- b. Added two new experiments using the Texas Instruments sponsored Analog Trainer Kits in the laboratory course – **EE309 - Integrated Circuits Lab** for V semester B.Tech. , EEE
- c. Framed syllabus for the courses **EE087 – Distribution System Automation, EE086 – Vehicular Electric Power Systems, EE006 – Utilization of Electrical Energy** for B.Tech. EEE

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(ii) Courses taught at Postgraduate and Undergraduate levels

### **M.Tech. – Power Systems**

- Power System Dynamics and Modelling
- Advanced Power System Analysis
- High Voltage DC Transmission
- Distributed Generation and Micro-grids
- Power System Stability
- Power Quality
- Power System Simulation Lab

### **B.Tech. – programme (EEE)**

- Transmission and Distribution of Electrical Energy
- Electrical and Electronic Measurements
- Utilization of Electrical Energy
- High Voltage Engineering
- Power Generation Systems
- Extra High Voltage AC – DC Transmission
- AC Machines
- Micro-processors and Micro-controllers
- Circuits and Electron Devices Laboratory
- AC Machines laboratory
- Micro-processors and Micro-controller Laboratory
- Linear Integrated Circuits Laboratory
- System Simulation Laboratory

### **B.Tech. – programme (Production Engineering)**

- Electrical and Control systems Engineering

### **B.Tech. – programme (Chemical Engineering)**

- Electrical Engineering Lab

### **B.Tech. – programme (Mechanical Engineering)**

- Applied Electrical and Electronics Engineering

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### (iii) Projects guided at Postgraduate level

1. Design of Power System Stabilizer For A Multi Machine System
2. Novel Scheme for location of PSS in a multi-machine System
3. Current Source Converter based STATCOM control for the Improvement of Transient Stability Margin
4. Comparison of State Feedback, Fuzzy based and PI controllers for Current Source Converter based Statcom
5. Particle Swarm Optimization based Power System Stabilizer for Single machine sytem.
6. Particle Swarm Optimization based Power System Stabilizer for Multimachine System
7. Optimal Location and Sizing of Distributed Generator units in Power Systems
8. Control Scheme for Micro-turbine Generation System in Islanding and Grid Connected Modes.
9. Reliability and Frequency based performance indices for Power Systems.
10. Control Strategies for Interfacing Distributed Generators to Grid
11. Fuzzy based controller for Micro-turbine.
12. Investigations on Auto disturbance rejection controller and fuzzy controller for Microturbine based Distributed Generator.
13. Optimal Location of DG based Voltage Stability indices.
14. Dynamic Analysis of Distributed Generators in Distribution Systems
15. Impact of Microturbine based Distributed Generator on Induction motor load in Distribution Systems
16. Optimal Location of Distributed Generators in non-autonomous microgrids
17. Investigations on Islanding and Restoration in an Autonomous Micro-grid using ETAP.
18. Reconfiguration of microgrids to enhance dynamic stability of DG units in autonomous mode of operation
19. Hybrid Distributed Generation using Micro-turbine and Wind Turbine based Generators
20. Hybrid Distributed Generation using Micro-turbine and Wind Turbine based Generators in autonomous mode of operation.
21. Investigations On Performance Analysis Of Various Controllers For Vsc-HVDC Transmission Systems
22. A Novel Reconfiguration Algorithm for Autonomous Micro-grids

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23. Self Defined Extinction Advance Angle controller for a HVDC Transmission link
24. Investigations on Modern Extinction Angle Controller for Hybrid HVDC system
25. Reconfiguration: A solution for improving performance of autonomous micro-grids
26. Novel Control Strategy for Independent Real and Reactive power flows in HVDC systems
27. A Scheme for detection of Accidental Islands for Autonomous Micro-grids
28. Optimal Siting and Sizing of Distributed Generators for Autonmous and Non-autonomous Micro-grids
29. Self Defined Extinction Advance Angle Controller for CCC based Hybrid HVDC systems
30. Control strategies for Micro-turbine based DGs in Micro-grids
31. Combined operation of Hybrid Generators in a Non – Autonomous Micro-grid
32. CCC based Hybrid HVDC system for OFF shore Wind power evacuation
33. A scheme for formation of controlled islands for Autonomous Micro-grids
34. Optimal Sizing and Siting of Hybrid DGs in Non-Autonomous and Autonomous Micro-grids
35. Controlled Switched Capacitor based High Voltage Direct Current System
36. Co-ordinated Controller for Thyristor Controlled Switched Capacitor based High Voltage Direct Current System
37. Hybrid operation of Fuel Cell and Photovoltaic based DGs
38. Control Topology for Hybrid Generation System
39. Controlled Islanding in Micro-grids
40. A scheme for Intentional Islanding in Microgrids
41. FPGA based Coordinated Control for Hybrid Power System
42. Controller design for Doubly-Fed Induction Generator based Wind Energy Conversion System
43. Optimal Siting and Sizing of Distributed Generators in Autonomous Micro-grids
44. FPGA based Coordinated Control for Hybrid Power System
45. Control Strategies for Fault Ride-through in Doubly-Fed Induction Generator based Wind Energy Conversion System
46. Adaptive Islanding and Restoration in Autonomous Micro-grids
47. Master Controller for HVDC Transmission
48. Investigations on Protection Issues in a Hybrid Power Generation System
49. Investigations on Performance of AC-DC Transmission Systems
50. Energy Management in a Hybrid Power System

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51. Con-tuned Filters in HVDC Transmission Systems
52. Single Stage Buck-Boost DC to AC Converter
53. Design and Implementation of a Grid Integrated Wind Power System with MPPT Control
54. Energy Management in Hybrid Power Systems
55. Reconfiguration and Adaptive Islanding of Micro-grids
56. Investigations on Active Disturbance Rejection Controller
57. Frequency Stability of Inverter based DGs on Islanding operation of Micro-grids
58. Investigations on Buck-Boost Inverter based configuration for Off-shore Wind Power Evacuation
59. Average Voltage Change based Islanding Detection in Micro-grids
60. Circuit Breaker Design in a Hybrid Power Generation System
61. Estimation and Analysis of Harmonics and Power Factor Correction in a Modern Steel Manufacturing Facility

### 14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
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### 15. Number of PhDs guided - **Ongoing**

Name of the PhD Scholar	Area of Research	Role(Supervisor/ Co-Supervisor)	Year of Award
M. Suman	Micro-grid Islanding	Supervisor	On-going
S. Srividhya	Micro-grid Design	Supervisor	On-going
Ravulakiri Kalyan	Stability Issues in HVDC	Supervisor	On-going
Ravichandran M. H.	Electrical Machines	Supervisor	On-going

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16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc.

Date (s)	Title of Activity	Level of Event (International/ National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organized by	Venue
12 <sup>th</sup> to 16 <sup>th</sup> June, 2006	Short term course on <b>“Microcontroller and Applications”</b>	National	Participant	NITTTR, Chennai	NITTTR, Chennai
20 <sup>th</sup> to 27 <sup>th</sup> August, 2007	Intensive course on “Wind Power Integration”	National	Participant	EEE Dept., NITT	EEE Dept., NITT
28 <sup>th</sup> and 29 <sup>th</sup> August, 2007	Two-day workshop on “Recent Trends in Wind Power Generation and FACTS”	National	Participant	EEE Dept., NITT	EEE Dept., NITT
28 <sup>th</sup> and 29 <sup>th</sup> September, 2007	Two-day workshop on “Electronic Circuit Design Techniques”	National	Participant	EEE Dept., NITT	EEE Dept., NITT
12 <sup>th</sup> and 13 <sup>th</sup> October, 2007	All India Workshop on <b>“Recent Trends in Energy Management”</b>	National	Participant	Institution of Engineers(India), Tiruchirappalli (Local Centre)	Institution of Engineers(India), Tiruchirappalli (Local Centre)
2 <sup>nd</sup> and 3 <sup>rd</sup> January 2008	Two-day workshop on <b>“Energy, environment and Importance of Power Electronics”</b>	National	Participant	Jointly organized by the IEEE PES- IAS Delhi chapter, IEEE PELS-IES Delhi chapter and EEE department, , IIT Delhi	IIT Delhi
28 <sup>th</sup> January to 1 <sup>st</sup> February, 2008	Short term course on <b>“Electrical Machines and Power Electronics in Renewable Energy Systems”</b>	National	Participant	Department of EEE, NITT	Department of EEE, NITT
29 <sup>th</sup> February, 2008.	One day workshop on <b>“Multi-variable Control Systems”</b>	National	Participant	Department of Chemical Engineering, National Institute of Technology, Trichy	NITT
17 <sup>th</sup> and 18 <sup>th</sup>	Two-day workshop on <b>“Low Carbon</b>	International	Participant	IIT, Madras.	IIT, Madras.



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March, 2008	<b>technologies for decentralized Power Production”</b>				
16th June to 28th June 2008	AICTE – MHRD Sponsored Summer School on <b>“Power Electronics and Renewable Energy Electric Conversion Systems”</b>			EEE Department, NITT	EEE Department, NITT
21 <sup>st</sup> – 27 <sup>th</sup> August 2008	One week Induction Training Programme on <b>“Instructional Design and Delivery System”</b>	National	Participant	National Institute of Technical Teachers’ Training and Research, Chennai	NITTTR, Chennai
12 <sup>th</sup> – 14 <sup>th</sup> November, 2008	Three day National level Workshop on <b>“Power Electronics (NWPE 2008)”</b>	National	Participant	Department of Electrical and Electronics Engineering, NITT	EEE, NITT
24 <sup>th</sup> March, 2009	Conference on Flourishing Areas of Electrical and Electronics Engineering	National	Judge for paper presentation	Kings College of Engineering, Thanjavur	Kings College of Engineering, Thanjavur
4 <sup>th</sup> May, 2009.	One day workshop on <b>“Power Electronics Simulation – SEQUEL”</b>	National	Participant	NITT	NITT
7 <sup>th</sup> September, 2009	One day Regional seminar on <b>“Intellectual Property and Innovation Management in Knowledge Era”</b>	National	Participant	National Research Development Corporation in collaboration with NITT	NITT
31 <sup>st</sup> August, 2010	Technical Symposium <b>“E-CURRERE”</b>	National	Key note address	Ponnaiyah Ramajayam College of Engineering and Technology	Ponnaiyah Ramajayam College of Engineering and Technology
20 <sup>th</sup> – 21 <sup>st</sup> December, 2010	Two day tutorial programme on <b>“High Voltage DC Transmission Systems”</b>	International	Participant	Central Power Research Institute, Bangalore	CPRI, Bangalore
22 <sup>nd</sup> May – 4 <sup>th</sup> June 2011	Two week MHRD-AICTE sponsored faculty development programme on <b>“Smart Grid Engineering”</b>	National	Participant	Department of Electrical Engineering, National Institute of Technology,	NIT, Calicut

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				Calicut	
20 <sup>th</sup> – 22 <sup>nd</sup> July 2011	IEEE International conference on <b>Process Automation, Control and Computing</b>	International	Paper presentation	<b>IEEE chapter, Coimbatore</b>	CIT, Coimbatore
21 <sup>st</sup> – 25 <sup>th</sup> November 2011	IEEE International Conference, <b>TENCON</b> ,	International	Paper presentation	<b>IEEE chapter</b>	Bali, Indonesia
1 <sup>st</sup> – 3 <sup>rd</sup> December 2011	IEEE International conference on <b>Smart Grid Technologies</b>	International	Paper presentation	<b>IEEE chapter</b>	Kollam, Kerala, India
12 <sup>th</sup> to 22 <sup>nd</sup> December 2011	Ten day ISTE workshop on <b>"Solar Photovoltaics: Fundamentals, Technologies and Applications,"</b>	National	Participant	National Mission on Education through ICT (NMEICT), together with the National Centre for Photovoltaic Research and Education(NCPRE)	NITT
27 <sup>th</sup> – 28 <sup>th</sup> April, 2012	International Conference on <b>Control, Communication and Power Engineering</b>	International	Paper presentation	Springer	Bangalore
7 <sup>th</sup> August, 2012	One day workshop on <b>"Advanced Techniques in Electrical Systems"</b>	National	Speaker	Kings College of Engineering, Thanjavur	Kings College of Engineering, Thanjavur
20 <sup>th</sup> – 22 <sup>nd</sup> August 2012	Three day Faculty Training programme on <b>"Teaching Methodologies"</b>	National	Participant	Indian Institute of Technology Madras, Chennai	IIT, Madras
7 <sup>th</sup> -9 <sup>th</sup> December 2012	<b>IEEE INDICON</b>	International	Paper presentation	IEEE chapter	Kochi, India
6 <sup>th</sup> -8 <sup>th</sup> February, 2013.	IEEE International Conference on <b>Power, Energy and Control (ICPEC'13)</b>	International	Session Chair	IEEE Chapter	PSNA College, Dindigul, India
9 <sup>th</sup> – 12 <sup>th</sup> September 2013	<b>IEEE AFRICON</b>	International	Paper presentation	IEEE chapter	Mauritius
11 <sup>th</sup> – 12 <sup>th</sup> October 2013.	Two days workshop on <b>"Hybrid Power Generation Systems"</b>	National	Participant	Central Power Research Institute, Bengaluru	CPRI, Bengaluru
26 <sup>th</sup> July 2014	One day worlshop on <b>"Challenging</b>	National	Participant	Jointly orgaized by the CPRI, IITM	IIT Madras, Chennai.

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	<b>Opportunities for R&amp;D in the Indian Power Sector”</b>			and GETCO	
26 <sup>th</sup> – 28 <sup>th</sup> September, 2014.	Short term course on <b>“Real Time Controller Design using TI C2000 Micro-controller”</b>	National	Participant	EEE Department of the National Institute of Technology Tiruchirappalli, in collaboration with the TI – University Program	EEE, NITT
11 <sup>th</sup> – 13 <sup>th</sup> December of 2014	IEEE conference <b>INDICON 2014</b>	International	Paper presentation	IEEE Chapter	Kerala, India
28 <sup>th</sup> and 29 <sup>th</sup> April, 2015	<b>“Conclave on Academic Reforms (CAR 2015)”</b>	National	Participant	National Institute of Technology Tiruchirappalli	NITT
21 <sup>st</sup> to 27 <sup>th</sup> September, 2015	TEQIP sponsored FDP on <b>“Role of Renewable Energy in an Indian Power Sector”</b>	National	Resource person/ Speaker	Anna University, BIT campus, Tiruchirappalli	Anna University, BIT campus, Tiruchirappalli
4 <sup>th</sup> – 5 <sup>th</sup> March, 2016	Short term course on <b>“Role of Power Electronics in Power Engineering(RoPEPE)”</b>	National	Participant	EEE department of the National Institute of Technology Tiruchirappalli.	NITT

17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor)

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
Two day workshop on <b>“Distributed generation”</b>	National	14 <sup>th</sup> – 15 <sup>th</sup> December 2007	One of the co-ordinators	NITT
Two day workshop on <b>“Renewable Autonomous Power Plants and Micro-grids”</b>	National	4 <sup>th</sup> – 5 <sup>th</sup> February 2012	One of the co-ordinators	NITT
Two day short term course on <b>“High Voltage DC Transmission”</b>	National	17 <sup>th</sup> – 18 <sup>th</sup> August 2012	Coordinator	NITT
One day Industrial Workshop on <b>“Understanding IGBT: from Device to Inverter”</b>	National	8 <sup>th</sup> April 2014	One of the co-ordinators	NITT
Two-day Industrial Workshop on	National	12 <sup>th</sup> – 13 <sup>th</sup> May 2014	One of the co-	NITT

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<b>“Power System Modeling and Simulation with PSCAD”</b>			ordinators	
Two-week ISTE main workshop on <b>“Control Systems”</b>	National	2 <sup>nd</sup> – 12 <sup>th</sup> December 2014	One of the co-ordinators	NITT
Three days Technical Symposium, <b>“CURRENTS”</b>	National	30 <sup>th</sup> Jan – 1 <sup>st</sup> February 2015	Faculty Advisor	NITT
Three days Technical Symposium, <b>“CURRENTS”</b>	National	18 <sup>th</sup> – 21 <sup>st</sup> February 2016	Faculty Advisor	NITT
Two day TEQIP Industrial workshop on <b>“Embedded System Design using FPGA board”</b>	National	23 <sup>rd</sup> – 24 <sup>th</sup> April, 2016	One of the co-ordinators	NITT

18. Invited Talks delivered

Topic	Date	Inviting Organization
Genetic algorithm and Particle Swarm Optimization Techniques in Power Systems	31.08.2012	Kings College of Engineering, Thanjavur
Power Electronics in Power Systems	17.09.2012	Anna University, Ramnad Campus
Electrical Micro-grids	01.10.2013	Institution of Engineers, BHEL, Trichy Local chapter
Protection Issues in HVDC	19 <sup>th</sup> & 20 <sup>th</sup> Oct, 2013	College of Engineering, Kidangoor, Kottayam
HVDC Transmission	27.01.2015	Institution of Engineers, BHEL, Trichy Local chapter
Distributed Generation	22.09.2015	Anna University, BIT Campus, Trichy.
Three Phase Induction Machines	5 <sup>th</sup> to 11 <sup>th</sup> October 2015	National Institute of Technology Uttarkhand
Optimal Sizing, placing of DGs in a Micro grid and Load flow studies	07.12.2015	BMS College of Engineering, Bengaluru
Induction Machines	29.02.2016	M.KUMARASAMY COLLEGE OF ENGINEERING
Introduction to Smart Grids	16.03.2016	University College of Engineering, Ariyalur
Electrical Machines	20.07.2016	M.KUMARASAMY COLLEGE OF ENGINEERING
High Voltage Engineering	08.09.2016	K. Ramakrishna College of Engineering, Trichy
Electrical Machine Design	17.09.2016	M.KUMARASAMY COLLEGE OF ENGINEERING
Distributed Generation and Micro-grids	30.09.2016	Kumaraguru College of Engineering, Coimbatore

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19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member )	Organization	Membership No. with date
Associate Member	The Institution of Engineers	Membership No. <b>AM097334-6</b>
Member	IEEE Membership	Membership No. <b>92598434</b> From 2013 onwards

20. Academic Foreign Visits

Country	Duration of Visit	Programme
Nanyang Technological University, Singapore	29 <sup>th</sup> June – 9 <sup>th</sup> July 2013	Study Tour under TEQIP
Bali, Indonesia	21 <sup>st</sup> Nov. – 25 <sup>th</sup> Nov. 2011	IEEE International Conference, TENCON 2011
Mauritius	9 <sup>th</sup> Sept. – 12 <sup>th</sup> Sept., 2013	IEEE International Conference, AFRICON 2013

21. Publications

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)
K. Parvathy and <b>M.Venkata Kirthiga</b>	Optimal Location and Sizing of Capacitors and Distributed Generators based on Plant Growth Simulation Algorithm in Micro-grids	International Journal of Power Systems and Power Electronics	Vol:4, No: 1	128 – 133	2011	
<b>M.Venkata Kirthiga</b> , S.Arul Daniel and S.Gurunathan	A Methodology for Transforming an Existing Distribution Network Into a Sustainable Autonomous Micro-Grid	IEEE Transactions on Sustainable Energy	Vol:4, No.1	31 – 41	2013	SCI Indexed - ISSN: 1949-3029
<b>M.Venkata Kirthiga</b> ,	Computational Techniques for	ISRN Power Engineering		Article ID.	2014	

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and S.Arul Daniel	Micro-grid Load Flow Analysis			742171, 12 pages		
<b>M.Venkata Kirthiga,</b> and S.Arul Daniel	Deliverables of Reconfiguration in Autonomous Microgrids	Journal of CPRI	Vol. 10, No. 1	75-86	2014	

(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year
<b>M.Venkata Kirthiga</b> and S.ChitraSelvi	Application of UPFC in Power Flow studies with Ideal Transformer	National Conference on Recent Trends and Emerging Technologies In Electrical Systems – ELCON '05		Recent Trends and Emerging Technologies In Electrical Systems	National Engineering College, Kovilpatti	2005
<b>M.Venkata Kirthiga</b> and Dr.S.Arul Daniel	Performance Indices Based Controlled Islanding of Power Systems	National Power System Conference conducted by the Department of EEE, IIT Roorkee		Power Systems		2006
S.Kalpna and <b>M.Venkata Kirthiga</b>	Evaluation of PSO-PSS against Fuzzy based PSS	<i>International Conference</i> on 'Power System Analysis, Control and Optimization-2008				2008
S.Kalpna and <b>M.Venkata Kirthiga</b>	Robust design of Power System Stabilizers using Particle Swarm Optimization	National Conference on Electrical Engineering and Embedded Systems	Electrical Engineering and Embedded Systems		College of Engineering Guindy, Anna University, Chennai	2008
N.Arun Kumar and <b>M.Venkata Kirthiga</b>	Optimal Location and Sizing of Distributed Generator Units in Power	National Conference on Electrical Engineering and Embedded Systems	Electrical Engineering and Embedded Systems		College of Engineering Guindy, Anna University, Chennai	2008

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	Systems					
<b>M.Venkata Kirthiga</b> and S.Arul Daniel	Optimal Sizing of Hybrid Distributed Generators in Autonomous Micro-grids	26 <sup>th</sup> IEEE Convention of Electrical and Electronics Engineers in Israel	864 - 868.	Electrical and Electronics Engg.	Israel	2010
M.Ashfaq Thahir and <b>M.Venkata Kirthiga</b>	Investigations on Modern Self-Defined Advance Angle Controller for HVDC Systems	IEEE international conference on Process Automation, Control and Computing	1-6	Process Automation, Control and Computing	Coimbatore, India	2011
M.Ashfaq Thahir and <b>M.Venkata Kirthiga</b> , “”,	Investigations on Modern Self-Defined Advance Angle Controller for Hybrid HVDC Systems	IEEE International Conference, TENCON	938-943		Bali, Indonesia	2011
<b>M.Venkata Kirthiga</b> , S.Gurunathan and S.Arul Daniel	Optimal Re-configuration of Micro-grids based on Ranking of Buses	IEEE International conference on Smart Grid Technologies	137 - 143	Smart Grid Technologies	Kollam, Kerala	2011
S.Gurunathan, <b>M.Venkata Kirthiga</b> and V.Prakashkumar	Optimal Reconfiguration of Distribution systems based on Ranking of buses	National Conference on Efficient Energy Management in Urban and Rural Sector	Efficient Energy Management in Urban and Rural Sector		Centre for Development and Technology Foundation, New Delhi	2011
K.Parvathy and <b>M.Venkata Kirthiga</b>	Optimal location and sizing of Capacitors and Distributed Generators in Non-Autonomous Micro-grids based on Plant Growth Simulation Algorithm	National Conference on Efficient Energy Management in Urban and Rural Sector	Efficient Energy Management in Urban and Rural Sector		Centre for Development and Technology Foundation, New Delhi	2011

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M.Rajasekaran and <b>M.Venkata Kirthiga</b>	A Modern Self-Defined Extinction Advance Angle Controller for CCC based Hybrid HVDC Systems	International Conference on Computing and Control Engineering (ICCCE 2012)			MGR University, Chennai	2012
Pramodkumar Muppiddi and <b>M.Venkata Kirthiga</b>	Line contingency ranking based on detection of accidental islands for autonomous micro-grid	Third International Conference on Control, Communication and Power Engineering	485 - 489	Control, Communication and Power Engineering	Bengaluru	2012
M.Rajasekaran and <b>M.Venkata Kirthiga</b>	Investigations on Modern Self-Defined Extinction Advance Angle Controller for CCC based HVDC Systems	Third International Conference on Control, Communication and Power Engineering	490 – 495	Control, Communication and Power Engineering	Bengaluru	2012
Purna Chandra Rao Thota and <b>M.Venkata Kirthiga</b>	Optimal siting and sizing of Distributed Generators in Micro-grids	IEEE INDICON 2012	730 - 735		Kochi, India	2012
M.Rajasekaran and <b>M.Venkata Kirthiga</b>	Comparison of Line and Capacitor Commutated Converters with Modern Self – Defined Extinction Advance Angle Controller	National Conference on Electrical and Instrumentation Systems			Government College of Technology, Coimbatore, India	2012
<b>M.Venkata Kirthiga</b> and Pramodkumar Muppiddi	Controlled Islanding based on Line Contingency Ranking in Autonomous Micro-grids	IEEE AFRICON 2013	1-5		Mauritius	2013
<b>M.Venkata</b>	A Modern Self-	IEEE	1-5		Mauritius	2013



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<b>Kirthiga</b> and M.Rajasekaran	Defined Extinction Advance Angle Controller for CCC based Hybrid HVDC Systems	AFRICON 2013				
C.S.Sandeep and <b>M.VenkataKirthiga</b>	Optimal Planning of Autonomous Micro-grid	National Power Systems Conference			Indian Institute of Technology, Guwahati, Assam, India	2014
Avinash Bethalam and <b>M.Venkata Kirthiga</b>	FPGA Based Coordinated Controller for Hybrid Power Systems	IEEE First International Conference on Power Electronics, Intelligent Control and Energy Systems		Power Electronics, Intelligent Control and Energy Systems	DTU, New Delhi	2016
K.Kanimozhi, Deepak Pallath and <b>M.VenkataKirthiga</b>	Adaptive Re- configuration and Islanding of Micro-grids based on Frequency Deviations	IEEE First International Conference on Power Electronics, Intelligent Control and Energy Systems		Power Electronics, Intelligent Control and Energy Systems	DTU, New Delhi	2016

(C) Books & Monographs

Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number
J. Gnanavadivel, C. Senthil Kumar, <b>M. Venkata Kirthiga</b> , M. Maruthupandi	Electrical Machines –I	Anuradha Publications	2005, revised by 2010	978-81-8472- 117-1

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