


Velammal Engineering College
Department of TIFAC-CORE

Name & Photo : Dr.A.SENTHIL KUMAR	
Designation:	Professor
Qualification :	B.E.,M.E.,MBA.,DISM.,PGDVLSI.,Ph.D(IITR)
Area of Specialization :	Power Electronics and Drives
Teaching Experience :	UG: 10 Yr. PG : 03 Yrs.
No. of Conference/FDP/workshop/Seminar attended :	0/07/05/1
Publication :	International journal :5 Nos. Conference :14 Nos.
General :	Life member in ISTE,IEI and CSI
Staff Achievements:	Given below

Experience Details:

Name and Address of the Institution	Designation	From	To	Total No. of Years
Velammal Engineering College, Chennai	Professor/EEE	25 th Nov.2010	Till Date	1 year and 2 months
S.K.P Engineering College,Tiruvannamalai	Professor/EEE	5 th May 2010	20 th Nov.2010	7 Months
Indian Institute of Technology Roorkee, Roorkee	Research Scholar	1 st July 2007	14 th April 2010	2 years and 10 months
Arunai Engineering College, Tiruvannamalai	Assistant Professor/EIE	3 rd April 2002	11 th April 2007	5 years

Velammal Engineering college, Chennai	Lecturer/EEE	20 th June 2001	29 th March 2002	09 months
Arunai Engineering College, Tiruvannamalai	Lecturer/EEE	15 th Oct 1998	19 th June 2011	2 years and 08 months
TNEB, Tiruvannamalai	Graduate Apprendice	14 th Oct 1997	13 th Oct 1998	1 years
Arunai Engineering College, Tiruvannamalai	Lecturer/EEE	8 th July 1996	7 th Oct 1997	1 year and 3 months

Conferences/FDP/Workshop/Seminar: (List)

FDP:

S.No	Date	Venue	Title	Duration
1.	04-05-2011 to 09-05-2011	Velammal Engineering College	Instructional Design & Delivery Systems	6 days
2.	21-06-2006 to 26-06-2006	Anna University, Chennai	VLSI Design	6 days
3.	05-06-2006 to 09-06-2006	NITTR, Chennai	Instructional Design & Delivery Systems	5 days
4	09-05-2005 to 14-05-2005	SJCE, Mysore	VLSI Design	6 days
5.	6-12-2004 to 11-12-2004	Arunai Engineering College	Kinematics of Robots and Programming	6 days
6.	25-10-2004 to 04-11-2004	Karunya Institute of Technology	Design and Development of Embedded system	11 days
7.	01-11-2000 to 17-11-200	Shanmuga College of Engineering, Thanjavur,	Induction Training to Young Teacher	18 days

Workshop:

S.No	Date	Venue	Title	Duration
1	29 th January 2005	Kumaraguru college of Technology,	Embedded Systems and Networking	1 day

2	25 th January 2005	Anna University, Chennai	VLSI and Embedded System Tool	1 day
3	19 th April 2003	Chemin Controls Industry, Pondicherry	Control and Instrumentation	1 day
4	26-02-2003 to 27-02-2003	Jerusalem College of Engineering, Chennai	Recent Trends in Electric Drives	2 days
5	28-11-2001 to 30-11-2001	Venkateswara College of Engineering, Chennai	Modern Laboratory Practices in Electrical & Electronics	3 days

Seminar:

S.No	Date	Venue	Title	Duration
1	03.11.2001 to 05.11.2011	IIT, Madras	Recent Trends in High Voltage Engineering	3 day

Publications:

Refereed conference and Workshop Publications

1. A.Senthil Kumar, T.Koteswaran, **Achieving improved Bandwidth utilization in a token Passing field bus network**, 5th National conference on Intelligent systems, Automation and Signal Processing (NCIASP-03), organised by IEEE Chennai chapter, March 1-2, 2003. (CDROM)
2. A.Senthil Kumar, T.Koteswaran, **Smart Sensor Technology**, 5th National conference on Intelligent systems, Automation and Signal Processing (NCIASP-03), organised by IEEE Chennai chapter, March 1-2, 2003. (CDROM)
3. A.Senthil kumar, M.Arumugam, Samleo L. Joseph, **Aristo Robot**, 4th International conference on Human Machine interface (ICHMI-2004), organised by Touch Lab, MIT, held at IISC Bangalore, December 20-23, 2004. (CDROM)
4. A.Senthil Kumar, M.Arumugam, **Component Based Embedded system**, 4th National conference on automated and instrumentation control (ACI-05), organised by ISA, Chennai chapter, Tamil Nadu, February 3-4, 2005. (CDROM)
5. A.Senthil Kumar, NaliniKanth, **Double inverter fed vector control induction motor**, 1st National conference on Cutting Edge Technologies in Power Conversion and Industrial Drives (PCID-05), BAIT, Erode, Tamil nadu, India, March 25-26, 2005. (CDROM)

6. A.Senthil Kumar, P.Suresh Kumar, **Equalisation concept for Edge**, 7th National conference on computer communication & mobile computing system (NCCC-MCS-05), GCT,Tirunelveli, Tamil Nadu, April 4th, 2005. (CDROM)
7. A.Senthil Kumar, M.Arumugam,**New approach for Embedded system**,5th National conference on intelligent computing in communication & autoamtion (NCICCA-05), AKCE, Tamil Nadu, India, December 23-25, 2006. (CDROM)
8. Senthil Kumar, A., Singh, G. K., and Saini, “**Capacitive Excitation of a Six Phase Self Excited Induction Generator-An Experimental Result**” International Conference on Energy Engineering-2009 (ICEE-2009), January 7-9, 2009, Pondicherry Engineering college, Pondicherry, India; Paper No. EEE 316 (CD-ROM).
9. Senthil Kumar, A., Singh, G. K., and Saini, “**Steady State Analysis of Six-Phase Self-Excited Induction Generator using Fmincon Technique**” IEEE Conf. on Electrical Energy Systems and Power Electronics in Emerging Economics, (ICEESPEEE2009), SRM University, Chennai, April 16-17, 2009, pp.303-308
10. Senthil Kumar, A., Singh, G. K., and Saini, “**Steady-State Analysis of a Self-Excited Six-Phase Induction Generator for Alternate Renewable Energy Generation**” 3rd IEEE Conf. on Power Electronics Systems and Applications -2009 (PESA-09), Hong Kong Polytechnique University, Hung Hom, Hong Kong, May 20-22, 2009, pp 1-5.
11. Senthil Kumar, A., Singh, G. K., and Saini, “**Optimization-Based Steady State Analysis of Six-Phase Self-Excited Induction Generator**” International Conference on Operations Research applications in Engineering and Management (ICOREM-09), Anna University, Trichy, India, May 27-29, 2009, pp.2744-2748
12. Senthil Kumar, A., Singh, G. K., and Saini, R. P., ‘**Selection of Capacitor for Self-Excited Six-Phase Induction Generator**’, 3rd IEEE Int. Conf. on Power System (ICPS-2009), IIT Kharagpur, India, Dec. 27-29, 2009, pp 1-6.
13. Senthil Kumar, A.and Singh, G. K., ‘**Performance Analysis of Self-Regulated and Self-Excited Six-Phase Induction Generator**’, 2nd IET International Conference on Sustainable Energy and Intelligent System (SEISCON 2011), 20-22 July, 2011, Chennai, INDIA, pp. 480-484.
- 14.Senthil Kumar, A. and Elango.T., Recent Advances in Power Electronics and Digital Control Strategies for Wind Energy Conversion System: A Review” International Conference on Renewable Energy Technologies(iCORET 2011), 16-17 December 2011, PSG College of Technology, Coimbatore, pp.124-128

Research Paper Published in International Journal:

- (i). Senthil Kumar, A., Singh, G. K., and Saini, R. P., ‘**Performance evaluation of series compensated self-excited six-phase induction generator for stand-alone renewable**

energy generation', Energy,(Elsevier publications) vol. 35, issue.1, pp. 288-297, January 2010. **(impact factor 1.72)**

- (ii). Senthil Kumar, A., Singh, G. K., and Saini, R. P., '**Steady-state modeling and analysis of six-phase self-excited induction generator for renewable energy generation**', Electric Power Components and Systems, (Taylor and Franchis publisher)Volume 38, Issue 2,pp.137-151,January 2010. **(impact factor 0.376)**
- (iii). Senthil Kumar, A., Singh, G. K., Saini, R.P., '**Selection of Capacitance for Self-Excited Six-Phase Induction Generator for Stand-Alone Renewable Energy Generation**', Energy Journal, (Elsevier Publication), vol. 35, issue.8, pp. 3273-3283, August 2010. **(impact factor 1.72)**
- (iv). Senthil Kumar, A., Singh, G. K., and Saini, R. P., '**A self-excited six-phase induction generator for stand-alone renewable energy generation**', European Transactions on Electrical Power, volume 20, Issue 7, pp.884-900, October 2010. **(impact factor 0.56)**
- (v). Senthil Kumar, A., Singh, G. K., and Saini, R. P., '**Performance Analysis of a Simple Shunt and Series Compensated Six-Phase Self-Excited Induction Generator for Stand-Alone Renewable Energy Generation**', Energy Conservation and Management Journal, (Elsevier Publication) , volume 52, Issue 3,pp.1688-1699, March 2011. **(impact factor 2.46)**

Achievements:

Number of Research Projects completed / ongoing from various funding sources

Name of the Funding Agency	Title of project	Total Amount	Period of support and offer letter no.	Completed/on-going
AICTE	MODROB On Power Electronics and Drives Lab	Rs. 5 Lakhs	One year (Ref. No.8024/RIFD/M OD-324/2010-11/Dated 31.03.2011)	On-going
AICTE	SDP- Embedded Systems and its Application to Power Electronics	Rs. 6.5 Lakhs	Two Weeks (File No. 1-78/RIFD/SDP(166)/2010-11 Dated	12.12.2011 to 23.12.2011

			28.03.2011)	
--	--	--	--------------------	--

Award

S.No.	Details of the Award	Issued Organization	Award Type	Year
1.	Partial Travel Grant award to attend the conference PESA-09, Hong Kong	Council of Scientific & Industrial Research (CSIR), India	Cash Award Rs.14000/-	2009
2.	Best Lecturer Award	Arunai Engineering College	Cash award & Certificate	2004
3.	Best Faculty Award	Arunai Engineering College	Cash award & Certificate	2006
4.	Best Research Paper Award	IET Conferences (SEISCON 2011)	Award & Certificate	2011

Certificate

S.No.	Details of the Certificate	Rank	Issued Organization	year
1.	Analysis of Inverter (PG COURSE)	Second	SCE, Thanjavur	2000
2.	Advanced Semiconductor devices (PG COURSE)	Second	SCE, Thanjavur	2000

Invited lectures and Chairmanships at national and international conference/seminar/symposium

S.No.	Title of lecture/keynote	Date & Venue	Title of the conference/seminar/symposium	Organized by	International/national/state
.					

1.	Safety measures for EA	05.03.2011, Vellore	National Conference (chairmanship)	AHCET	National
2.	Micro grid and smart grid	08.04.2011, Chennai	National Conference – RET-2011(chairman)	VEC	State
3.	Smart Grid	09.09.2011, Vellore	NATIONAL TECHNICAL SYMPOSIUM –ROCX-2011 (CHIEF GUEST)	GTECH	National
4.	Multi inverter	15.09.2011, Chennai	NATIONAL WORKSHOP ON HARDWARE IMPLEMENTATION OF PED	SRM university & ABB company	State
5.	Power electronics for RES	17.09.2011, TVM	INAGURATION OF EEE ASSOCIATION (CHIEF GUEST)	KEC	National
6.	Smart Grid for RES	24.09.2011, Hosur	NATIONAL TECHNICAL SYMPOSIUM- FARADAY-2011 (CHIEF GUEST)	PMEC TECH	National
7.	Induction motor drive	02.12.2011 Chennai	Anna university sponsored Faculty development program on “SSD”	Rajalakshmi Engineering College	State
8.	Matlab application Electrical Engineering	10.12.2011 Gudur,Andra pradesh	CSIR sponsored workshop of Matlab application in electrical engineering	Audishankara College of Engineering & Technology, Gudur	National

Reviewer for Journals

1. Electric Power Components and System (Taylor and Franchis Publisher)
2. International Journal of Computer and Electrical Engineering (IJCEE)
3. inderscience journal
4. Energy journal (Elsevier publication)

Foreign country visited

Visited HONG KONG in MAY 2009

Visited Chengudu, china in March 2010

Recognized Supervisor

He as the recognized “Research guide” for the Doctorate Programme and M.S by Research programs offered by the Anna University, Chennai (**Reference No. 15.399.01**) ,Anna university of technology Chennai, Chennai (**Reference No. AUT/Ph.D/2011(R)/EE002**) and Sathyabama University, Chennai (**Reference No. 31042**)