

**Dr L Ashok Kumar**  
**Professor**  
**Department of Electrical & Electronics Engineering**  
**PSG College of Technology, Coimbatore – 641 004**  
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## EDUCATION

<b>POST DOCTORATE</b> (Dec. 2016)	BHAVAN Fellow, Building Energy Efficiency Higher & Advanced Network San Diego State University, California, USA
<b>DOCTORATE</b> (Feb. 2011)	Wearable Electronics, Faculty of Electrical Engineering PSG College of Technology, Coimbatore Anna University
<b>POSTGRADUATE</b> (June 2010)	Human Resource & Management IGNOU, New Delhi
<b>POSTGRADUATE</b> (July 2006)	Electrical Machines PSG College of Technology, Coimbatore Anna University
<b>UNDERGRADUATE</b> (July 1997)	Electrical & Electronics Engineering Sapthagiri College of Engineering University of Madras

## EXPERIENCE

**Experience** : **19 Years**  
**Industry Experience** : **3 Years**      **Academic Experience** : **16 Years**

August 2014 to Till Date

**Professor**, Department of Electrical & Electronics Engineering  
**PSG College of Technology**, Coimbatore.

November 2011 to July 2014

**Associate Professor**, Department of Electrical & Electronics Engineering  
**PSG College of Technology**, Coimbatore.

November 2010 to October 2011

**Asst. Professor (Sr.Gr)**, Department of Electrical & Electronics Engineering  
**PSG College of Technology**, Coimbatore.

From June 2007 to October 2010

**Senior Lecturer**, Department of Electrical & Electronics Engineering  
**PSG College of Technology**, Coimbatore.

From June 2000 to May 2007

**Lecturer**, Department of Textile Technology  
**PSG College of Technology**, Coimbatore.

From August 1997 to May 2000

**Project Engineer**  
**M/s. Serval Paper Boards Ltd., (Now ITC Unit Kovai)**, Coimbatore

### **ADDITIONAL RESPONSIBILITIES**

- **Programme Coordinator, ME-Power Electronics & Drives**  
Dept. of Electrical & Electronics Engg ., PSG College of Technology, Coimbatore.
- **Programme Coordinator, ME (PT)-Electrical Machines**  
Dept. of Electrical & Electronics Engg ., PSG College of Technology, Coimbatore.
- **Programme Coordinator, ME (PT) - Applied Electronics**  
Dept. of Electrical & Electronics Engg ., PSG College of Technology, Coimbatore.
- **Faculty Incharge, PSG - L&T Centre for Excellence in LV Switchgear**  
Dept. of Electrical & Electronics Engg ., PSG College of Technology, Coimbatore.
- **Faculty Incharge, Centre for Renewable Energy Systems**  
Dept. of Electrical & Electronics Engg ., PSG College of Technology, Coimbatore.
- **Faculty Incharge, PSG – PROSUN Centre for Excellence in Solar PV Systems**  
Dept. of Electrical & Electronics Engg ., PSG College of Technology, Coimbatore.
- **Faculty Incharge, R&D Tech Bulletin**  
Dept. of Electrical & Electronics Engg ., PSG College of Technology, Coimbatore.
- **Laboratory Incharge, Power Converters Laboratory**  
Dept. of Electrical & Electronics Engg ., PSG College of Technology, Coimbatore.

## **COURSES HANDLED**

### **UNDERGRADUATE**

1. Power Electronics
2. Instrumentation and Microcontroller Technology
3. C Programming
4. Instrumentation & Control System
5. Electrical & Electronics Engineering
6. Microprocessor and PLC Technology
7. Introduction to Information Technology
8. Microprocessors and its applications

9. Basics of Electrical & Electronics Engineering
10. Network Theory
11. Digital Electronics

### **POSTGRADUATE**

1. Power Electronics in Wind and Solar Power Conversion
2. Control System and Automation in Textile Engineering
3. Electrical Energy Conservation and Management
4. Modelling & Analysis of Electrical Machines

### **LABORATORY HANDLED**

1. Electrical & Electronics Engg. Lab
2. Computer Programming Lab
3. Power Electronics Lab
4. Control System and Automation Lab
5. Microprocessor and DSP Lab
6. C Programming Lab
7. Instrumentation and Control Systems Lab
8. Design Lab

### **RESEARCH AREAS**

1. Wearable Electronics
2. Solar PV & Wind Energy Systems
3. Textile Control Engineering
4. Smart Grid & Internet of Things (IoT)
5. Energy Conservation & Management
6. Power Electronics & Drives
7. Biosensors for Engineering Applications

### **AWARDS**

- ◆ Recipient of **PSG Teacher of the Year Award** for the Academic contribution towards the development of the Institution on 6<sup>th</sup> September 2016.
- ◆ Recipient of **Indian Association of Energy Management Professionals (IAEMP) Award** in recognition for devoted service to the growth and Progress of IAEMP.
- ◆ Recipient of **Outstanding Scientist Award 2015** from Venus International Foundation, Chennai on 19<sup>th</sup> December 2015.
- ◆ Recipient of **Distinguished Educator Award 2015** from NFED, Coimbatore on 5<sup>th</sup> September 2015.
- ◆ Recipient of **Outstanding Educator and Best Researcher Award 2014** from NFED, Coimbatore on 5<sup>th</sup> September 2014.
- ◆ Recipient of **Best Researcher Award** from Education Expo TV, EETS Science & Technology Awards 2014, New Delhi on 21<sup>st</sup> June 2014.
- ◆ Recipient of **Danfoss Innovator Project Award 2014** for the project titled **Single Phase Transformerless Inverter for Solar PV systems** from M/s. Danfoss, Chennai.
- ◆ Recipient of **Bharat Excellence Award 2014** from Friendship Forum India Ltd., New Delhi.

- ◆ Recipient of **P.K.Das Memorial Best Faculty Award 2013- EEE** from Nehru Group of Institutions Coimbatore on 15<sup>th</sup> December 2013.
- ◆ Recipient of **Prof. K Arumugam National Award** for *Innovative Work in Engineering and Research* by Indian Society for Technical Education, India on 19<sup>th</sup> December 2013.
- ◆ Recipient of **Dr Triguna Charan Sen Prize** from The Institution of Engineers (India) for the paper *Implementation of MEMS Accelerometer in Looms for Warp Stop Motion*.
- ◆ Recipient of **Young Engineer Award – Electrical Discipline** from Institution of Engineers, India on 25<sup>th</sup> Nov 2011 at 27<sup>th</sup> National Convention of Electrical Engineers conducted IE (I) Kolkatta.

#### HONOURS:

- ◆ Received Rs.50000/- SECOND prize for the project titled “*High Efficient PV System Design by Spectral Absorption Using Water Column*” at International Renewable Energy Expo & Conference – 2011 conducted by Tamilnadu Energy Development Agency.
- ◆ UGC sponsored for presenting technical paper titled, *Tele-intimation Garment: A Wearable Electronic Garment for Soldier's Status* at 4<sup>th</sup> RMUTP International Conference: Textiles & Fashion, during 3 – 6 July 2012, conducted by Rajamangala University of Technology, Thailand.
- ◆ UGC sponsored for presenting technical paper titled, *Design & Development of Flexible Solar Tent For Defence Applications* at World Renewable Energy Congress 2009 – Asia, during 18 – 23 May 2009, conducted by Joint Graduate School of Energy & Environment, Bangkok, Thailand.
- ◆ **Visiting Lecturer** at **University of Arkansas, USA** to pursue collaborative research on topics related to sensor and sensor system and network.

#### **SPONSORED RESEARCH / CONSULTANCY ACTIVITIES**

<b>Sl. No</b>	<b>Sponsoring Agency</b>	<b>Title of the project</b>	<b>Status</b>
1.	UGC-MRP	Design & Development of Wireless Embedded Microcontorller Based Portable Nano Scale Toxic Gas Sensor System.	Under Progress
2.	DST-SYST	Development of Interactive Hydraulic Activated Device for Chronic Post Stroke Therapy.	Under Progress
3.	DST - SEED	Design and Development of Pneumatic Actuated Wearable Hand and Forearm Device for the Rehabilitation of Recovering Stroke Patients .	Under Progress
4.	DST-SERI	Solar Energy based Desiccant loop Air-Conditioning.	Under Progress
5.	AICTE	Design & Development of Smart Microgrid using Renewable Energy Sources.	Under Progress
6.	DST	Development of Locator and Communicative device for Dementia Patients .	Completed

7.	Villgro - Project	Solar Based Level Trainer for Vertical Milk Tank .	Completed
8.	CSIR	Design & Development of Reterofittable ECU for Automobile Starting System.	Completed
9.	Villgro - Project	Design of Solar Dish Free Piston Stirling Engine Alternator.	Completed
10.	Villgro - Project	Electric Coconut Scrapper	Completed
11.	DSIR	Design & Development of Dynamic Stretch Comfort Measurement Device for Sport & Healthcare Applications	Completed
12.	L-RAMP	Drugged Drive Prohibitive System	Completed
13.	DRDO	Design & Development of Flexible Solar Tents for Defence Applications	Completed
14.	DRDO	Design, Development & Fabrication of Tele-Intimation Garment for Defence Personnel	Completed
15.	DRDO	Wearable Electronics Clothing for Defence Personnel	Completed

#### **CONSULTANCY ACTIVITIES:**

- ◆ Research and Consultancy for “**Up gradation and Diagnosis & Rectification of Electronic Yarn Twist Tester**” for M/s Eureka Instruments, Coimbatore
- ◆ Technology Transfer – “**Development of Pneumatic Gloves for Paralysis Attacked Persons**” for Tirupathi Medical College, Tirupathi
- ◆ **Testing and consultancy for Solar PV Panels** for M/s. D-ESPAT Pvt. Ltd, Chennai
- ◆ **Power Quality Study for the following Industries**
  - M/s. LRTFoundary Division, Arasur
  - M/s.KOB Medical Textiles, Palladam
  - M/S. SK Associates, Coimbatore
  - M/S. JK Alloys, Coimbatore
  - M/s. Century Apparels Pvt. Ltd., Avinashi
  - M/s. Theni Textile Mills, Perundurai.

#### **PATENTS FILED**

- **Smart Glove for Paralysis Affected Stroke Patients** (CBR No. 14821, Application No. 201641022396).
- **Wearable Glove With Gripper Motors For Patients Affected by Upper Arm Hemiplegic** (CBR No.14822, Application No. 201641022397).
- **Hybrid Compact Parabolic Fresnel Reflector** (CBR No. 22192, Application No. 201641029707).

## PUBLICATIONS

### **BOOKS AND MONOGRAPHS PUBLISHED:**

- **Computational Intelligence Paradigms for Optimization Problems Using MATLAB®/SIMULINK®,** CRC Press, Taylor & Francis Group, USA, ISBN 9781498743709, 2015 Edition.
- **Solar PV and Wind Energy Conversion Systems - An Introduction to Theory, Modeling with MATLAB/SIMULINK, and the Role of Soft Computing Techniques** – Green Energy and Technology, Springer; 2015 edition (20 April 2015), ISBN-10: 3319149407, ISBN-13: 978-3319149400.
- **Electronics in Textiles and Clothing: Design, Products and Applications,** CRC Press, Taylor & Francis Group, USA, ISBN 9781498715508, 2015 Edition.
- Monograph on **Instrumentation & Textile Control Engineering** – Nov 05.
- Monograph on **Smart Textiles** – May 2002
- Monograph on **Information Technology for Textiles** – Jan 2002 Prescribed as text book for I year M.Tech (Textile Technology), PSG CT, Anna University.

### **INTERNATIONAL JOURNALS**

1. **M. Senthilkumar, L. Ashok Kumar, Nondestructive Fabric Weight Measurement using Capacitance Principle, *International Journal of Clothing Science and Technology*, Vol. 28 No. 5, 2016, Pg.No. 690 – 698, April 2016.**
2. **M. Senthilkumar, L. Ashok Kumar, A. Keerthana, V. Pavithra, S. Poongodi, Design and development of an instrument for non- destructive fabric weight measurement, *Indian Journal of Fiber & Textile Research*, Vol. 40, pp. 329-333, September 2015. (IF: 0.634)**
3. **Y. Dhayaneswaran, L. Ashok Kumar, A study on current characteristics of induction motor while operating at its base frequency in textile industry *Energy*, Volume 74, Pages 340-345.**
4. **L. Ashok Kumar, Design and Development of Cost effective Global Positioning System General Packet Radio Service Based Soldier Tracking System, *Journal of Engineering and Technology*, Vol. 3, Issue 1, Pg. No. 36-40, Jan-Jun 2013. (IF: 0.24)**
5. **L. Ashok Kumar, C. Vigneswaran, Dr. T. Ramachandran, Design and Development of Signal Sensing Equipment for Measuring Light Transmission Efficiency of POF Fabrics, *Indian Journal of Fibre & Textile Research*, Vol. 35, Pg. No. 317 – 323, December 2010.**
6. **L. Ashok Kumar, A.N. Sai Krishnan, Design of Sewing Thread Tension Measuring Device, *Indian Journal of Fiber & Textile Research*, Pg. No. 65–67, Vol. 35, March 2010.**
7. **L. Ashok Kumar, C. Vigneswaran, T. Ramchandran, Development of Signal Transferring Fabrics Using Plastic Optic Fibers (POF), *Journal of Industrial Textiles, UK*, Volume 39 Issue 4, April 2010, pp 305-326. Print ISSN: 1528-0837, Online ISSN: 1530-8057. (IF 0.811)**

8. **A.N. Sai Krishnan, L. Ashok Kumar, A. Venkatachalam, Design and development of illuminated clothing with PMMA for versatile applications, *Indian Journal on Fiber & Textile Research*, Vol. 31, Pg. No. 577-579, Dec 2006.**
9. **T. Tharankumar, Dr.L. Ashok Kumar, Simulation of Integrated Wind and Solar Resources using HOMER Software, *Australian Journal of Basic and Applied Sciences*, 9(31), Pg.No. 234-244, ISSN:1991-8178 September 2015.**
10. **N. Archana, R. Vidhyapriya, L. Ashok Kumar, A. Berose Abdul Kadhar, Power Quality Improvement in a Multi Machine System using a STATCOM, *International Journal of Research in Advent Technology*, Vol.4, No.1, Pg.No.16-22, E-ISSN: 2321-9637, January 2016.**
11. **L. Ashok Kumar, N. Archana, R. Vidhyapriya, Power Quality Improvement of Grid Connected Wind Energy Systems Using Statcom-Battery Energy Storage System , *ARNP Journal of Engineering and Applied Sciences*, Pg.No.9872-9879, Vol. 10, No. 21, November 2015.ISSN 1819-6608 (IF: 0.765)**
12. **N. Archana, R. Vidhyapriya, L. Ashok Kumar, A. Berose Abdul Kadhar, A Survey on Power Quality Improvement of Multi Machine Systems Using FACTS Devices, *International Journal for Research in Applied Science & Engineering Technology*, Volume 3 Issue X, Pg. No.216-222, ISSN: 2321-9653, October 2015. (IF : 2.013)**
13. **L. Ashok Kumar, Sheeba Babu, Smart Grid, Standards, Policies and Regulations in India and Issues Related to DG Integration and Solutions - A Survey, *Australian Journal of Basic and Applied Sciences*, 9(23), ISSN 1991-8178, Pg. No. 248-264, July 2015. (IF: 0.786)**
14. **M. MadhuSudha, A. Kalaiarasi, L. Ashok Kumar, Parametric Modes and Brain Frequency Analysis for BCI, *International Journal of Applied Engineering Research* (ISSN 0973-4562), Volume No 10, Issue No 55, Pg.No. 541-546, Special Issue, 2015.**
15. **J. ThomaslinVeronAtheena, A. Kalaiarasi, Dr. L. Ashok Kumar, Differential Diagnosis and Identification of Bilirubinemia using Triple Modes, *International Journal of Applied Engineering Research*(ISSN 0973-4562), Volume No 10, Issue No 55, Pg.No. 4210-4215, Special Issue, 2015.**
16. **P.K. Arun Kumar, L. Ashok Kumar, A Review on Power Quality Improvement in a Grid Connected Wind Energy Conversion System Using Dynamic Voltage Restorer, *Australian Journal of Basic and Applied Sciences*, 9(11) May 2015, Pages: 528-541, ISSN:1991-8178. (IF: 0.786)**
17. **K. Prithivi, L. Ashok Kumar, Review and Analysis of Non-Isolated DC-DC Power Electronic Interface With Fuel Cell System, *ARNP Journal of***

***Engineering and Applied Sciences***, ISSN 1819-6608, Pg.No.1-10, Vol. 10, No. 8, May 2015. (IF: 0.765)

18. *Elam Cheren S, Ashok Kumar L*, Off Grid Power Supply For Remote Devices Using Solar PV, ***International Journal of Applied Engineering Research*** ISSN 0973-4562 Volume 10, Number 6 (2015) pp. 14457-14466.
19. *Maheswaran D, Rajasekar N, Priya K, Ashok Kumar L*, Application of Bacterial Foraging Algorithm and Genetic Algorithm for Selective Voltage Harmonic Elimination in PWM Inverter, ***Journal of Electrical Engineering & Technology***, ISSN(Print) 1975-0102 ISSN(Online) 2093-7423, 10(3): 944-951, 2015; (IF: 0.528)
20. *K. Prithivi, V. Soniya, Dr.L. Ashok Kumar*, A Novel Step-Up Converter with Reduced Output Voltage Ripple, ***International Journal of Applied Engineering Research***, ISSN 0973-4562 Vol. 10 No.1 (2015) pp. 200-204.
21. *Murugesan V M, Chandramohan G, Senthilkumar M, Rudramoorthy R, Ashok Kumar L, Rambabu Palla*, Analysis of Automobile Starter Solenoid Switch for Improved Life, ***Automatika Journal***, Online ISSN 1848-3380, Print ISSN 0005-1144, Vol. 55(3), 256–264 (2014).
22. *D. Maheswaran, N. Rajasekar, L. Ashok Kumar*, Design of Passive Filters for Reducing Harmonic Distortion and Correcting Power Factor in Two Pulse Rectifier Systems using Optimization, ***Journal of Theoretical & Applied Information Technology***, Vol.62, No.3, Pg. No. 720-728 ISSN 1992-8645. April 2014.
23. *D.Maheswaran, N.Rajasekar, L. Ashok Kumar*, A Detailed Current Harmonics Analysis and GA Based Passive LC Filter Design in Six-Pulse Variable Frequency Drive, ***International Journal of the Indian Pulp and Paper technical Association (IPPTA)*** Vol.26, No.2, pp 80 – 88, April-June, 2014.
24. *Dr.L. Ashok Kumar, Dr.P.Rani*, Microcontroller Based Remote Tracking System for Dementia Patients, ***International Journal of Applied Engineering Research & Development***, ISSN 2250-1584, vol. 4 Issue I, Pg. No. 1- 6, Feb. 2014. 2.0653 (IF: 1.6842)
25. *Murugesan V M, Chandramohan G, Senthilkumar M, Rudramoorthy R, Ashok Kumar L, Saravanan S.V*, Fault Diagnosis of Medium Duty Commercial Vehicle Engine Starting System Using Fuzzy Logic Algorithm to Improve Starter Reliability And Reduced Emission, ***Pollution Research Journal***, Poll Res. ISSN 0257–8050, 32 (3): 663-668, August 2013.
26. *L. Sabari Nathan, L. Ashok Kumar, B. Vaikundaselvan, S. Ravi Krishna*, Modeling of Control and Power Management of a Hybrid Wind-Solar System Using Optimization Technique, ***International Review on Modeling and***



- Simulations***,ISSN 1974-9821, Vol. 6, N.5, Pg. No. 1570 – 1580, October 2013. (IF: 0.453)
27. Murugesan V M, Chandramohan G, Senthilkumar M, Rudramoorthy R, Ashok Kumar L, Suresh Kumar R, Basha D, Vishnu Murthy K, **A Novel Approach to Develop ECU Based Automobile Starting system using Lab view for Safe and Reliable Start, *ARPN Journal of Engineering and Applied Sciences***, Vol. 7, No. 7, ISSN 1819-6608, Pg. No. 867 – 879, July 2012. (IF: 0.486)
  28. Murugesan V M, Chandramohan G, Senthilkumar M, Rudramoorthy R, Ashok Kumar L, Suresh Kumar R, Basha D, Vishnu Murthy K, **An Overview of Automobile Starting System Faults and Fault Diagnosis Methods, *ARPN Journal of Engineering and Applied Sciences***, Vol. 7, No. 7 ISSN 1819-6608, Pg. No. 812-919, July 2012. (IF: 0.486)
  29. R. Ram Muruges, L. Ashok Kumar, P. Wesley Maria Jones, R. Kumaravel, **Real-Time Monitoring of Industrial Environmental Temperature using LabVIEW, *International Journal of Engineering Research and Applications***, Vol.5, Issue 12 (Part-3) Pg.No.129-132, ISSN 2248-9622, December 2015. (IF:0.462)
  30. L. Ashok Kumar, **Study on Different Techniques of Fabricating Conductive Fabrics for Developing Wearable Electronics Garments, *Journal of Textile Science & Engineering***, Volume 5, Issue 5, Pg.No.1-6, ISSN: 2165-8064, September 2015.
  31. L. Ashok Kumar, **Tele-intimation Garment: A Wearable Electronic Garment For Soldier's Status Monitoring Applications, *RMUTP Research Journal: Special Issue 2014***, Pg.No.141-146, ISSN 1906-0432, 2014.
  32. N. Archana, R. Vidhyapriya, L. Ashok Kumar, E. Arjun, **A Survey on Power Quality Improvement of Grid Connected Wind Energy Systems using FACTS, *International Journal of Engineering and Management Research, Volume-4, Issue-5,Pg. No.: 115-121 October-2014, ISSN No. 2250-0758***. (IF: 0.453) and (IF 2.216) as per their website <http://www.ijemr.net/IJEMR/Home.aspx>
  33. M. MadhuSudha, A. Kalaiarasi, L. Ashok Kumar,**Literature Survey about Brainwave Test, *International Journal of Emerging Trends in Science and Technology***, Vol.1,Issue 07,Pg. No. 1211-1221, September 2014, ISSN 2348-9480. (IF: 0.270)
  34. Mahaboob subahani A, Dr. Ashok Kumar L,**A Novel Nine-Switch Converter for Solar Energy Generation Systems, *International Journal of Applied Research and Studies***, ISSN: 2278-9480, Pg. No. 1-6, Volume 2, Issue 6 , June 2013. (IF: 0.425)
  35. Karthick R.T, Ashok Kumar L, **Stand-Alone Solar Power Generation System with Constant Current Discharge, *International Journal of Emerging Trends***

- in Electrical and Electronics*, ISSN: 2320-9569, Pg. No. 108-115, Vol. 5, Issue. 1, July 2013. (IF: 0.401)
36. **M. Senthilkumar, L. Ashok Kumar, N. Anbumani, Design and Development of a Pressure Sensing Device for Analyzing the Pressure Comfort of Elastic Garments, *Fibers & Textiles in Eastern Europe*, 20,1(90), 64-69, 2012. (IF: 0.801)**
  37. **L. Ashok Kumar, IlaVennila, T. Ramachandran, Tele-intimation Garment for Personnel Monitoring Applications (Reprint), *Melliand China*, Worldwide Textile Journal, pg no 66 – 67, August 2011.**
  38. **L. Ashok Kumar, IlaVennila, T. Ramachandran, Tele-intimation Garment for Personnel Monitoring Applications, *Melliand International*, Worldwide Textile Journal, pg no 53 – 54, D 45169 F, March 2011.**
  39. **L. Ashok Kumar, T.Ramchandran, Investigation on Acquisition of Signals from Tele-intimation Garment for Extreme Health care and Defence Personnel, *International Journal of Biomedical Signal Processing*, Vol 1, No.2, Pg. No. 49-57, December 2010.**
  40. **L. Ashok Kumar, T. Ramchandran, Remote Utilization of Textile Testing Equipments Using Microcontrollers with LabVIEW, *Pakistan Textile Journal*, Pg. No. 43 – 45, November 2010.**
  41. **L. Ashok Kumar, T. Ramchandran, A Methodology for Product Development of Nonwoven Wearable Electronics, *International Journal of Nonwovens and Technical Textiles*, USA, Pg. No. 25-28, Apr-Jun 2010.**
  42. **L. Ashok Kumar, Development of self-assisting Pneumatic Clothing for Physically Challenged People, *Technical Textiles, Germany*, E98-E99, June 2010.**
  43. **L. Ashok Kumar, T. Ramchandran, Development of Wearable Solar Jacket for Remote and Military Applications, *Asian Textile Journal*, Pg. No. 48-52, June 2010**
  44. **P. Kanakaraj, L. Ashok Kumar, 3D Body Scanning Technology: Its Applications, *Pakistan Textile Journal*, Pg. No. 37 -39, April 2009.**

#### **NATIONAL JOURNALS**

1. **L. Ashok Kumar, Dr. A. Venkatachalam, M. Sivanandam, Implementation of MEMS Accelerometer in Looms for Warp Stop Motion, *Journal of Institution of Engineers (India)*, Pg. No. 16 - 20, Vol. 91, August 2010.**
2. **Y. Dhayaneswaran, L. Ashok Kumar, A Study on Energy Conservation in Textile Industry, *Journal of Institute of Engineers*, Springer Publications, Ser. B 94(1):53–60, March–May 2013.**

3. **L. Ashok Kumar, Harsha Vardhan, Harmonic Mitigation in a Thyristorised Heating Furnace, *National Journal of Technology*, Pg. No. 28 – 33, Vol.12, ISSN - 0973 – 1334, March 2016.**
4. **L. Ashok Kumar, Steffi Pius, Design and Implementation of Advanced Harmonic Filter for Variable Frequency Drives, *National Journal of Technology*, Pg.No.16-22, Vol.11, No.3, ISSN - 0973 - 1334, December 2015.**
5. **Murugesan V M, Chandramohan G, Rudramoorthy R, Senthil Kumar M, Ashok Kumar L, Basha D, Fault Diagnosis of Automobile Starting System Using Electronic Control Unit, *National Journal of Technology*, Vol.11, No.3, Pg.No.67-83, September 2015.**
6. **Dr.L Ashok Kumar, V. Aparna, Analysis and Comparison of Dynamic Performance of Various PLLs used in Distributed Generation Systems, *KSEBEA Hydel, Technical Journal of KSEB Engineers' Association*, Vol. 61, Pg. No. 26 – 33, June 2015.**
7. **L. Ashok Kumar, R. Kumaravel, Switched Reluctance Machine Analysis Using Different Software Platforms – *National Journal of Technology*, Pg. No. 20 – 26, Vol.10, No.4. ISSN – 0973-1334, December 2014.**
8. **L. Ashok Kumar, A Review on Effective Lightning Protection for Wind Turbine Generators, *The Journal of CPRI*, Pg. No. 45- 51, ISSN 0973-0338, Vol. 9, Iss1, March 2013.**
9. **L. Ashok Kumar, T. Surendar Kashyap, Design & Simulation of Multi Input Converter for Hybrid Vehicle Applications, *National Journal of Technology*, Vol. 9, No.3, Pg. No. 1 – 9, September 2013.**
10. **L. Ashok Kumar, Y. Uma Maheswari, Efficiency Improvement of PV Water Pumping Systems by Automatic Water Spraying over PV cells, *National Journal of Technology*, Pg. No. 20-32, ISSN-0973-1334, Vol. 8, No.4, December 2012.**
11. **L. Ashok Kumar, IlaVennila, T. Ramachandran, Design and Development of Tele monitoring System using Mobile Network for Medical Applications, *National Journal of Technology*, Pg. No. 1 – 7, Vol. 7, No. 2, June 2011.**
12. **L. Ashok Kumar, IlaVennila, T. Ramachandran, Development of Bullet Wound Detection Circuit Using Flexible PCB for Tele-intimation Garment, *National Journal of Technology*, Pg. No. 75-83, Vol. 6, No.1, ISSN-0973-1334, March 2010.**
13. **L. Ashok Kumar, IlaVennila, T. Ramachandran, Development of Soldier's Status Monitoring Software for Tele-intimation Garment, *National Journal of Technology*, Pg. No. 18 – 23, Vol. 6, No. 4, December 2010.**
14. **L. Ashok Kumar, Dr.T. Ramachandran, Emerging Trends in Flexible Wearable Electronics for Versatile Applications, *The Indian Textile Journal*, Pg. No. 62-66, April 2010.**

15. **L. Ashok Kumar, M. Senthil Kumar, Concept & Applications of RFID in Textile & Apparel Industry, *The Indian Textile Journal* , Pg. No. 40 – 44, March 2010.**
16. **L. Ashok Kumar, A.N. Sai Krishnan, Illuminated Clothing for Versatile Applications – in *National Journal of Technology*, March 2006.**
17. **K. Murugesh Kumar, L. Ashok Kumar, S.R. Sivarasu, Design and Development of Microcontroller Based Solar PV Systems for UPS, *National Journal of Technology*, September 2006.**
18. **L. Ashok Kumar, A. Venkatachalam, Intelligent Clothing – in *National Journal of Technology*, June 2005.**
19. **L. Ashok Kumar, Selecting Wire & Cable for Solar PV Applications, *Electrical India*, Vol.56, No.5, Pg.No.48-50, May 2016.**
20. **L. Ashok Kumar, A Detailed Study on Shunt Capacitor Bank Fundamentals and Protection, *Electrical Mirror*, Vol.VI, Issues VII, Pg.No.70 – 85, January 2015.**
21. **L. Ashok Kumar, Study on Upgrading Generator Protection Using Digital Technology, *Electrical Mirror*, Vol.V, Issue VI, Pg. No. 26- 35, December 2015.**
22. **L. Ashok Kumar, A Review on Recent Advances in Single-Stage Power Factor Correction, *Electrical Mirror*, Vol.V, Iss 1, Pg.No.96-105, July 2015.**
23. **L. Ashok Kumar, Clarifying Confusing Cables: Performance/Cost Trade-offs in PV Systems Wiring/Cabling Selection, *Electrical Mirror*, Pg.No.25-29, Vol. IV, Issue XII, June 2015.**
24. **L. Ashok Kumar, Distribution System Capacitor Banks and their Impact on Power Quality, *Electrical India*, Pg.No.46-50, Vol.55, No.5, May 2015.**
25. **L. Ashok Kumar, Techniques for Optimal Capacitor Placement in Distribution Feeders, *Electrical Mirror*, Pg. No. 50 – 52, Vol. IV, Issue X, April 2015.**
26. **L. Ashok Kumar, Measuring and Reporting Methods of the Performance of Solar PV System, *Electrical Mirror*, Pg.No.44 – 47, Vol. IV, Issue IX, March 2015.**
27. **L. Ashok Kumar, Operation & Maintenance Issues in Solar PV System, *Electrical Mirror*, Pg.No. 78 – 83, Vol. IV, ISS VII, January 2015.**
28. **L. Ashok Kumar, Stroke Rehabilitation Devices – A Study – *Medical Equipment & Automation*, Pg.No.46-57, Vol.7, No.3, Nov- Dec 2014.**
29. **L. Ashok Kumar, Micro-Hydro Systems in the Developing World - A Review, *Electrical India*, Pg.No.78 – 84, Vol. 54, No.12, December 2014.**
30. **L. Ashok Kumar, Micro-Inverters/Module Integrated Inverters for Solar PV Applications – A Review, *Electrical India*, Pg. No. 22-32, Vol. 54, No.10, October 2014.**
31. **L. Ashok Kumar, Smart Meter – Technologies & Issues – *Electrical Mirror*, Vol. IV, Iss. II, Pg. No. 38-44, August 2014.**

32. **L. Ashok Kumar, Review on Hybrid Power Systems An Effective Way of Utilizing Primary Energy Sources, *Energy Blitz*, Vol.-(IV) III, Pg. No. 37-42, ISBN2249 – 2992, June- July 2014.**
33. **L. Ashok Kumar, Study on Power System issues in Solar PV Interface using Automated Power Quality Analysis, *Electrical India*, Pg. No. 58-68, Vol. 54, No.4, April 2014.**
34. **L. Ashok Kumar, Reliability Assessment of Solar PV Power System – Review of Current Status and Future Prospective, *Smart Energy*, Vol. I Issue I, 54 – 59, Feb / Mar 2014.**
35. **L. Ashok Kumar, Dynamic Model for Transient Stability Analysis of T&D system with DG, *Electrical Mirror*, Pg. No. 68-72, Vol. III, Issue I, July 2013.**
36. **L. Ashok Kumar, Energy Management for Motors, Systems and Electrical Equipment – A Report, *Electrical India*, Pg. No. 58 – 67, Vol. 53, No. 6, June 2013.**
37. **L. Ashok Kumar, Review on Power Electronic Converters for Wind Turbine Systems, *Electrical India*, Pg. No. 24 – 38, Vol. 53, No. 4, April 2013.**
38. **L. Ashok Kumar, Reactive Power Management with Capacitors for Renewable Energy Applications, *Electrical Mirror*, Pg. No. 66-73, Vol. II, Issue VIII, February 2013.**
39. **L. Ashok Kumar, Communication Architectures in Smart Grid, *Electrical India*, Pg. No. 24-46, Vol. 53, No. 2, February 2013.**
40. **L. Ashok Kumar, Transformer Design & Optimization, *Electrical Mirror*, Pg. No. 42-47, Vol II, Issue IV, October 2012.**
41. **L. Ashok Kumar, Woody Bio-fuels – Past Present & Future, *Energy Blitz*, Pg. No. 11-13, Vol. II(I), ISSN2249-2992, August - September 2012.**
42. **L. Ashok Kumar, Centralized Substation Automation System Using Information Technology – A Concept, *Electrical India*, Pg. No.36-42, Vol. 52, No 8, August 2012.**
43. **L. Ashok Kumar, Intelligent Universal Transformer – A Boon to Modern Distribution System, *Electrical Mirror*, Pg. No. 60-67, Vol. II, Issue I, July 2012.**
44. **L. Ashok Kumar, Smart Transmission Grid: Vision and Framework, *Energy Blitz*, Pg. No. 13-20, Vol. VI, ISSN2249-2992, June-July 2012.**
45. **L. Ashok Kumar, Promoting Energy Conservation Behavior, *Electrical India*, Pg. No. 72 – 76, Vol. 52 No.6, June 2012.**
46. **L. Ashok Kumar, Elements for an Energy Efficient House, *Energy Blitz*, Pg. No. 16-20, Vol. I (V), ISSN2249-2992, April - May 2012.**
47. **L. Ashok Kumar, Review of Shunt Capacitor Bank fundamentals & Protection, *Electrical Mirror*, Pg. No. 38 to 41, Vol. I, Issue XI, May 2012.**

48. **L. Ashok Kumar, State-of-the-art of Power Electronics for Wind Turbines Systems – A Review, *Electrical India*, Pg. No. 30 – 45, Vol. 52, No. 4, April 2012.**
49. **L. Ashok Kumar, FACTS and HVDC Technologies for the Development of Future Power Systems, *Electrical India*, Pg. No. 102 – 109, Vol. 52 No. 2, Feb 2012.**
50. **L. Ashok Kumar, Concept of Electricity Network Augmentation by Distributed Generation Using Renewable Energy, *Electrical Mirror*, Pg. No. 106-111, Vol. I, Issue VII, Jan 2012.**
51. **L. Ashok Kumar, Self-Assisting Pneumatic Gloves for Physically Challenged Personnel, *Medical Equipment & Automation*, Pg. No. 82-89, Vol. 4. No. 2, Jan-Feb 2011.**
52. **L. Ashok Kumar, Hybrid Power Systems - An Efficient Way of utilizing Primary Energy Sources, *Electrical India*, Pg. No. 100-110, Vol. 51 No. 2, February 2011.**
53. **L. Ashok Kumar, Design and Development of Cost Effective Solar PV UPS for Domestic Applications, *Electrical India*,Pg. No. 86-92, Vol. 50 No. 4, April 2010.**
54. **L. Ashok Kumar, Energy Auditing & Reduction of Losses in Electrical Systems – Modern Concepts, *Electrical India*, Vol. 49 No. 12, Pg. No. 42-51, December 2009.**
55. **L. Ashok Kumar, Powered Clothing published in <http://www.fibre2fashion.com/industry-article/market-research-industry-reports/powered-clothing>, 20th September 2006.**
56. **L. Ashok Kumar, Laser based Auto-leveler draw frame: concept and review, <http://www.fibre2fashion.com/industry-article>, 29<sup>th</sup> August 2006.**
57. **L. Ashok Kumar, Smart apparel and its applications – III, *Express Textile*, 16 – 30 June 2005.**
58. **L. Ashok Kumar, Smart apparel and its applications – II, *Express Textile*, 1 – 15 June 2005.**
59. **L. Ashok Kumar, Smart apparel and its applications – I, *Express Textile*, 16 – 31 May 2005.**
60. **L. Ashok Kumar, Protective Textiles, *Asian Textile Journal*, Pg. No. 93 to 106, Nov 2004.**

#### **SPECIAL PUBLICATIONS:**

Article and Interview Published in

1. Daily News Magazine “**Deccan Chronicle**” on **30<sup>th</sup> Sep 2010** about “**Heating Gloves**”.
2. Interview and demo telecasted in “**DD - Metro South**” on **3<sup>rd</sup> Nov 2006** about “**Illuminated Clothing**”.

3. Interview telecasted in International News Channel “**Zee News**” on 20<sup>th</sup> Aug 2006 about “**Electric Sweater**” and “**Power Shoes**”.
4. News Magazine “**Deccan Chronicle**” on 8<sup>th</sup> Jan 2009 about “**Pneumatic Gloves**”.
5. News Magazine “**The Hindu**” on 29<sup>th</sup> Nov 2007 about “**E-Jerkin**”.
6. News Magazine “**Deccan Chronicle**” on 8<sup>th</sup> Nov 2007 about “**Heating Gloves**”.
7. “**Daily Thanthi**” on 30<sup>th</sup> September 2007 issue about “**Heating Gloves**” & “**E-Jerkin**”.
8. “**New Business India**” on 2<sup>nd</sup> to 15<sup>th</sup> September 2007 issue about “**Smart Shirt**”.
9. News Magazine “**Deccan Chronicle**” on 24<sup>th</sup> Feb 2007 about “**Smart Shirt**”.
10. News Magazine “**Deccan Herald**” on 18<sup>th</sup> Nov 2006 about “**Power Shoes and Smart Pants**”.
11. News Magazine “**Dinathanthi**” on 27<sup>th</sup> Oct 2006 about “**Illuminated Clothing**”.
12. News Magazine “**Dinamalar**” on 1<sup>st</sup> Sep 2006 about “**Power Shoes and Smart Pants**”.
13. News Magazine “**The Hindu**” on 11<sup>th</sup> Aug 2006 about “**Electric Sweater**”.
14. News Magazine “**New Indian Express**” on 10<sup>th</sup> Aug 2006 titled “**A Garment to kill chill**”.
15. News Magazine “**Dinamalar**” on 21<sup>st</sup> Apr 2006 about “**Smart Shirt**”.

## CONFERENCES

### INTERNATIONAL CONFERENCES ATTENDED ABROAD

1. **Power Quality Improvement of Grid Connected Wind Energy Systems using STATCOM-Battery Energy Storage System**, *International Conference on Electrical, Control and Computer Engineering*, October 27 - 28, 2015 conducted by University of Malaysia, Pahang.
2. **Design and Analysis of Highly Efficient & Reliable Single-Phase Transformerless Inverter for PV Systems**, *International Conference on Sustainable Energy and Environmental Engineering* during September, 11-12, 2014 conducted by WASET, Singapore.
3. **Tele-intimation Garment: A Wearable Electronic Garment for Soldier's Status**, *4<sup>th</sup> RMUTP International Conference: Textiles & Fashion* during 3 – 6 July 2012, conducted by Rajamangala University of Technology, Thailand.
4. **Design & Development of Flexible Solar Tent for Defence Applications**, *World Renewable Energy Congress 2009 – Asia*, 18 – 23 May 2009, Conducted by Joint Graduate School of Energy & Environment, Bangkok, Thailand.

### INTERNATIONAL CONFERENCES ATTENDED IN INDIA

1. **Power flow Control for Energy Resource Connected in Smart Micro-Grid for Unbalanced Condition**, *India Smart Grid Week 2016*, on 17<sup>th</sup> March 2016, conducted by India Smart Grid Forum, New Delhi.

2. **Differential Diagnosis and Identification of Bilirubinemia using Triple Modes**, *Proceedings of International Conference on Advances in Applied Engineering and Technology*, May 14-16, 2015, conducted by Syed Ammal College of Engineering, Ramanathapuram.
3. **Parametric Modes and Brain Frequency Analysis for BCI**, *Proceedings of International Conference on Advances in Applied Engineering and Technology*, May 14-16, 2015, conducted by Syed Ammal College of Engineering, Ramanathapuram.
4. **A Novel Step up Converter with Reduced Output Voltage Ripple**, *IEEE Sponsored 9th International Conference on Intelligent Systems and Control*, during 9 - 10 Jan 2015, pg.no. 435-439, conducted by Karpagam College of Engineering, Coimbatore.
5. **Design and Analysis of Highly Efficient & Reliable Single-Phase Transformerless Inverter for PV Systems**, *International Conference on Sustainable Energy and Environmental Engineering* during September, 11-12, 2014 conducted by WASET, Singapore.
6. **Locator and Communicative Device for Dementia Patients**, *International Congress on Emergency Medical Service Systems & Innovation & Entrepreneurship in Healthcare* during 18- 20 October 2013 at All India Institute of Medical Sciences, New Delhi, India.
7. **Magnetic repulsive method for self-starting of straight bladed Darrieus VAWT**, *International Conference on Computational Intelligence and Advanced Manufacturing Research*, on 5<sup>th</sup> April 2013, Vels University, Chennai.
8. **Implementation Of Telemedicine In Defence Application Using Tele-intimation Garment**, *8<sup>th</sup> International Telemedicine Conference – Telemedicon 12*, Conducted by Telemedicine Society of India during 29<sup>th</sup> Nov – 1<sup>st</sup> Dec 2012.
9. **NBC Body Protective Clothing for Defense Applications - A Review**, *International Conference on Industrial Textiles* during 3- 4 August 2012, organized by Department of Textile Technology, PSG College of Technology, Coimbatore.
10. **Design and Simulation of 27 level Multilevel Inverter for Solar PV Applications**, *International Conference on Enhancements in Power Electronics and Controls* during 24 – 25 Nov 2011, at PSG College of Technology, Coimbatore.
11. **Design, Development and Condition Monitoring of Domestic Wind mills**, *4<sup>th</sup> Renewable Energy Conference – The Wind Edition* Conducted by Exhibitions India Group, The Residency, Coimbatore.
12. **Development of LabVIEW Based Soldier Status Monitoring Software for Tele-intimation Garment**, *First International Conference on Modern Trends in Instrumentation and Control* during 2 - 3 Sep 2011 by Dept. of Instrumentation and Control Engg., PSG College of Technology, Coimbatore (**Adjudged best paper in the conference**).



13. **Development of ECU Based Starting System for Automobiles**, *IEEE -International Conference on Process Automation, Control and Computing*, during 20 - 22 Jul 2011 at Coimbatore Institute of Technology, Coimbatore.
14. **Tele-intimation Garment for Soldier's Status Monitoring Applications**, *International Conference on Technical Textiles & Nonwovens* during November 11-13, 2010 at, IIT Delhi.
15. **Smart Medical Textiles for Monitoring Pregnancy**, *International Conference on Healthcare and Hygiene Textiles & Clothing* during 30-31 July 2010 by Departments of Textile & Fashion Technology PSG College of Technology, Coimbatore.
16. **Design of Instrument for Measuring Pressure Comfort in Elastic Bandages and Garments**, *International Conference on Healthcare and Hygiene Textiles & Clothing* during 30-31 July 2010 by Departments of Textile & Fashion Technology PSG College of Technology, Coimbatore.
17. **Hybrid Solar PV Residential System With Grid Interfacing**, *International Conference on Jawaharlal Nehru National Solar Mission – The Road Ahead* during 4-5 March 2010 by SESI & Electronics Today, Mumbai Trade Centre, Mumbai.
18. **Potential of Piezoelectric Effect to Power Wearable Electronic Devices**, *6<sup>th</sup> Edition of The International Conference On Advances In Textiles, Machinery, Nonwovens And Technical Textiles* conducted during 7 – 9 December 2009 by Bannari Amman Institute of Technology, Departments of Textile and Fashion Technology, & Texas Tech University USA.
19. **Design Framework of Wearable Electronic Textiles**, *International Conference on Advances in Fibrous Materials, Nonwoven and technical Textiles* conducted during August 28 - 30, 2009 at Department of Textile Technology, SSM College of Engineering, Komarapalayam.
20. **Review Paper on Carbon Nanotube Textiles: Concepts, Challenges and Applications**, *International Conference & Exhibition on Textiles & Apparels: Engineering, Technology, Manufacturing & Management*, 16-18 April 2009, Conducted Team Tech Textiles, Bangalore.
21. **Design and Development of Tele-intimation Garment for Extreme Health Care and Defence Personnel**, *International Conference & Exhibition on Textiles & Apparels: Engineering, Technology, Manufacturing & Management*, 16-18 April 2009, Conducted by Team Tech Textiles, Bangalore.
22. **Solar Textiles: A New-fangled Technique for Power Generation**, *3<sup>rd</sup> International Solar Energy Society Conference Asia Pacific Region*, 25-28 Nov 2008 Sydney Convention Centre, Australia.

23. **Tele-intimation Garment for Extreme Healthcare and Defence Personnel**, *5<sup>th</sup>International conference on Medical Informatics & Telemedicine*, 19-20 Dec 2008, conducted by Medical Computer Society of India, Chennai.
24. **Development of Pneumatic Glove for Physically Challenged Personnel**, *International Conference on Technical Textiles and Nonwovens*, 11–14 Nov 2008, conducted by Department of Textile Technology, IIT Delhi.
25. **Development of Self Assisting Pneumatic Clothing for Defence Personnel**, *International Congress on Advances in Textiles Nonwoven and Technical Textiles*, 14-16 July 2008 conducted by Texas Tech University, USA and Avinashilingam University for Women, Coimbatore.
26. **Implementation of MEMS Accelerometer in Looms for Warp Stop Motion**, *IISc Centenary - International Conference on Advances in Mechanical Engineering*, 2-4 July 2008 conducted by Department of Mechanical Engineering, IISc, Bangalore.
27. **Intelligent Garments for Telemedicine Applications**, *3<sup>rd</sup> National Conference of Telemedicine Society of India and 12<sup>th</sup>ISfTeH International Conference*, 1-3 Nov 2007 conducted by Apollo Hospitals, Chennai.
28. **Electro-medical Textiles: Concepts & Challenges**, *International Conference on Apparel & Home Textiles*, 16 -18 August 2007 conducted by International Textile Educational Consortium in collaboration with SSM College of Engineering, Komarapalayam.
29. **Implementation of MEMS Accelerometer in Warp Stop Motion**, *International Conference on Advances in Textiles, Machinery, nonwoven and Technical Textiles*, 18–19 June 2007 conducted by Dept. of Textile Technology, Kumaraguru College of Technology, Coimbatore.
30. **Powered Clothing – A Novel Approach**, *International Conference on Technical Textiles* 11-12 Nov 2006 conducted by Department of Textile Technology, IIT Delhi.
31. **Intelligent Apparels**, *International Conference on Multiphase of Textiles* on 10<sup>th</sup> Aug, 2006 conducted by Faculty of Home science, Avinashilingam Deemed University, Coimbatore **(Adjuded best paper in the conference)**
32. **Design and Development of Electric Sweater for Defence Personnel**, *International Conference on Advances in Fibrous Materials, Nonwovens and Technical Textiles*, 7- 9 Aug. 2006 conducted by SSM College of Engineering and The Institute of Environmental & Human Health, Texas Tech University, USA
33. **Design & Development of Illuminated Clothing With PMMA for Versatile Applications**, in *International conference on Advances in Textile Materials Technology, Management and Applications*, 7– 8 July 2005, conducted by Dept. of Textile Technology, Kumaraguru College of Technology, Coimbatore.
34. **Intelligent Universal Transformer - A Boon to Modern Distribution System**, *International Conference on Emerging Technologies in Intelligent Systems and Control*

during 5–7 Jan 2005 conducted by Dept. of Electrical & Electronics Engg., Kumaraguru College of Technology, Coimbatore.

35. **Smart Apparel and its Applications**, *International Conference on High-performance Textiles and apparels* conducted by Dept. of Textile Technology, Kumaraguru College of Technology, Coimbatore.

### NATIONAL CONFERENCES

1. **Design of Controller to Improve Voltage and Frequency Stability in Microgrid during Autonomous Mode of Operation**, *National Conference on Design, Testing, and Applications of Embedded & Power Electronic Systems* in association with Indian Association of Energy Management Professionals on 6<sup>th</sup> May 2016 conducted by Dept. of EEE, PSG College of Technology, Coimbatore.
2. **Lithium Ion Battery Management System for Electric Vehicles**, *National Conference on Design, Testing, and Applications of Embedded & Power Electronic Systems* in association with Indian Association of Energy Management Professionals on 6<sup>th</sup> May 2016 conducted by Dept. of EEE, PSG College of Technology, Coimbatore. **(Adjudged as Best Paper)**.
3. **Predictive Current Control Technique Based Field Oriented Control for PMSM Drive**, *National Conference on Design, Testing, and Applications of Embedded & Power Electronic Systems* in association with Indian Association of Energy Management Professionals on 6<sup>th</sup> May 2016 conducted by Dept. of EEE, PSG College of Technology, Coimbatore.
4. **Modeling and Analysis of Switched Reluctance Generator**, *National Conference on Design, Testing, and Applications of Embedded & Power Electronic Systems* in association with Indian Association of Energy Management Professionals on 6<sup>th</sup> May 2016 conducted by Dept. of EEE, PSG College of Technology, Coimbatore.
5. **Design and comparison on BLDC motor for Water Pump Applications**, *National Conference on Design, Testing, and Applications of Embedded & Power Electronic Systems* in association with Indian Association of Energy Management Professionals on 6<sup>th</sup> May 2016 conducted by Dept. of EEE, PSG College of Technology, Coimbatore.
6. **Design of wind Turbine Simulator using LabVIEW**, *National Conference on Design, Testing, and Applications of Embedded & Power Electronic Systems* in association with Indian Association of Energy Management Professionals on 6<sup>th</sup> May 2016 conducted by Dept. of EEE, PSG College of Technology, Coimbatore.
7. **A LabVIEW Based Environmental Monitoring system for Desiccant Loop Air cooling System**, *National Conference on Design, Testing, and Applications of Embedded & Power Electronic Systems* in association with Indian Association of Energy

Management Professionals on 6<sup>th</sup> May 2016 conducted by Dept. of EEE, PSG College of Technology, Coimbatore. **(Adjudged as Best Paper)**.

8. **A review on specific cooling power (SCP), coefficient of performance (COP), regeneration methods and heat recovery options for a cooling system using Desiccant materials**, 3<sup>rd</sup> National Conference on Recent Trends in “Clean Technology for sustainable Environment, 25<sup>th</sup> September 2015, Department of Chemical Engineering, SSN College of Engineering, Chennai. **(Adjudged as Best Paper)**.
9. **Dead-Time Harmonic Elimination for Solar Inverters**, National Conference on Design, Testing and Applications of Embedded & Power Electronic Systems, during 8 – 9 May 2015 conducted by Dept. of EEE, PSG College of Technology, Coimbatore.
10. **Compact Welding Machine with Power factor Correction**, National Conference on Design, Testing and Applications of Embedded & Power Electronic Systems, during 8 – 9 May 2015 conducted by Dept. of EEE, PSG College of Technology, Coimbatore.
11. **Design and Implementation of Advanced Harmonic Filter for Danfoss Drives**, National Conference on Design, Testing and Applications of Embedded & Power Electronic Systems, during 8 – 9 May 2015 conducted by Dept. of EEE, PSG College of Technology, Coimbatore. **(Adjudged as Best Paper)**
12. **Power Quality Improvement of Grid Connected Wind energy system using Static Synchronous Compensator**, National Conference on Design, Testing and Applications of Embedded & Power Electronic Systems, during 8 – 9 May 2015 conducted by Dept. of EEE, PSG College of Technology, Coimbatore.
13. **Study on Harmonic Mitigation Techniques for Electronically Commutated BLDC motors used in Industrial Blowers/Fans**, National Conference on Design, Testing and Applications of Embedded & Power Electronic Systems, during 8 – 9 May 2015 conducted by Dept. of EEE, PSG College of Technology, Coimbatore.
14. **A Cloud Based Development of Locator and Communicator Device for Dementia Patients**, IEEE National Conference on Communication, Signal Processing and Networking during 10 -12 October 2014 conducted by Dept. of ECE, NSS College of Engineering, Palakkad.
15. **Analysis and Comparison of Dynamic Performance of Various PLLs**, National Conference on Recent Trends in Electrical & Electronics Engineering on 9<sup>th</sup> May 2014, conducted by Dept. of EEE, PSG College of Technology, Coimbatore.
16. **Design of a Multi Input Power Converter for Renewable Energy Applications**, National Conference on Recent Trends in Electrical & Electronics Engineering on 9<sup>th</sup> May 2014, conducted by Dept. of EEE, PSG College of Technology, Coimbatore.
17. **Hot Standby (Redundancy) Operation of Variable Frequency Drives**, National Conference on Recent Trends in Electrical & Electronics Engineering on 9<sup>th</sup> May 2014, conducted by Dept. of EEE, PSG College of Technology, Coimbatore.

18. **Design and Analysis of Highly Efficient and Reliable Single Phase Transformerless Inverter for Grid Connected PV Systems**, *National Conference on Recent Trends in Electrical & Electronics Engineering* on 9<sup>th</sup> May 2014, conducted by Dept. of EEE, PSG College of Technology, Coimbatore.
19. **Modeling and Simulation of Dynamic Voltage Restorer (DVR) for Power Quality Improvement in Solar Power Plant**, *National Conference on Recent Trends in Electrical & Electronics Engineering* on 9<sup>th</sup> May 2014, conducted by Dept. of EEE, PSG College of Technology, Coimbatore.
20. **Switched Reluctance Machine Analysis using Different Software Platforms**, *National Conference on Recent Trends in Electrical & Electronics Engineering* on 9<sup>th</sup> May 2014, conducted by Dept. of EEE, PSG College of Technology, Coimbatore.
21. **Design of DC-DC Converter for Hybrid Electric Vehicle Applications**, *National Conference on Recent Trends in Electrical & Electronics Engineering* on 10<sup>th</sup> May 2013, conducted by Dept. of EEE, PSG College of Technology, Coimbatore.
22. **Design & Development of Bypass Option Card for VFD**, *National Conference on Recent Trends in Electrical & Electronics Engineering* on 10<sup>th</sup> May 2013, conducted by Dept. of EEE, PSG College of Technology, Coimbatore.
23. **Designing a Harmonic Filter for Harmonic Reduction in VFD to reduce Power Quality Issues**, *National Conference on Recent Trends in Electrical & Electronics Engineering*, on 10<sup>th</sup> May 2013, conducted by Dept. of EEE, PSG College of Technology, Coimbatore.
24. **Performance enhancement of a PV module using anti-reflective coating**, *Conference on New and Renewable Energy Technologies* on 27<sup>th</sup> April 2013, PSG College of Technology, Coimbatore.
25. **Design and development of a straight bladed MWT**, *Conference on New and Renewable Energy Technologies* 27<sup>th</sup> April 2013, PSG college of Technology, Coimbatore.
26. **Experimentation on improvement of low speed wind energy harvesting through magnetic levitation concept**, *National Conference on Green Energy* on 20<sup>th</sup> April 2013, RMD college of Engineering, Chennai.
27. **Design and Analysis of Magnetic Levitation Based VAWT**, *National Conference on Frontiers in Mechanical Sciences and Automotive Technology* on 6<sup>th</sup> April 2013, Tamilnadu College of Engineering, Coimbatore.
28. **Influence of ANN in Solar PV and Wind Energy Systems - A Review**, 28<sup>th</sup> *National Convention of Electrical Engineers* on 6- 7 October 2012 conducted by Institution of Engineers, Trivandrum.
29. **Analysis of Automobile Starter Solenoid Switch for Improved Starter Reliability**, 28<sup>th</sup> *National Convention of Mechanical Engineers* on 3– 5 Sep 2012, conducted by IE(I), Coimbatore chapter at PSG College of Technology, Coimbatore.

30. **Development of Flexible Solar Tent**, *National Seminar on Alternate Energy Sources* on 30 - 31 August 2012, Conducted by Dept of Chemistry, PSG R Krishnammal College for Women, Coimbatore
31. **Design of Power Converter for Traction Energy Storage and Utilization Systems**, *National Conference on Recent Trends in Electrical and Electronics Engineering* on 11<sup>th</sup> May 2012, Conducted by Dept of EEE, PSG College of Technology, Coimbatore.
32. **Solar Micro-inverter**, *National Conference on Recent Trends in Electrical and Electronics Engineering* on 11<sup>th</sup> May 2012, conducted by Dept of EEE, PSG College of Technology, Coimbatore.
33. **A Novel Nine-Switch Converter for Solar Energy Generation Systems**, *National Conference on Recent Trends in Electrical and Electronics Engineering* on 11<sup>th</sup> May 2012, conducted by Dept of EEE, PSG College of Technology, Coimbatore.
34. **Analysis and implementation of an integrated SEPIC-forward converter for photovoltaic-based light emitting diode lighting**, *National Energy Conference on Energy Resource Planning & Development* on 27<sup>th</sup> April 2012, organized by School of Energy, PSG College of Technology, Coimbatore.
35. **Tele-intimation Garment for Personnel Monitoring Applications: Design, Fabrication and Methodology**, *24<sup>th</sup> National Convention of Textile Engineers* during 19 – 20 August 2011 conducted by IE (I), Karnataka State Centre, Bangalore.
36. **Analysis, Design and Verification of High Frequency MOSFET gate drivers**, *National Conference for Post-graduate students* on 28<sup>th</sup> April 2011 conducted by PSG College of Technology, Coimbatore.
37. **Design, Implementation and Monitoring Wind Turbine for Domestic Applications**, *National Conference for Post-graduate students* on 28<sup>th</sup> April 2011 conducted by PSG College of Technology, Coimbatore.
38. **Design and Fabrication of High Efficient Concentrated Silicon Photovoltaic-Thermal Module by Spectral Absorption Using Water**, *National Conference for Post-graduate students* on 28<sup>th</sup> April 2011 Conducted by PSG College of Technology, Coimbatore.
39. **Design and Fabrication of High Efficient Single Phase Transformerless Inverter for Grid Connected Photovoltaic System**, *National Conference for Post-graduate students* on 28<sup>th</sup> April 2011 conducted by PSG College of Technology, Coimbatore.
40. **Intelligent Sun-Tracking System for Efficiency Maximization of Photovoltaic Energy Production**, *National Conference for Post-graduate students* during 24 - 25 April 2010 conducted by PSG College of Technology, Coimbatore.

41. **Experimental Studies on Solar Powered Diffusion Absorption Refrigerator**, *National Conference for Post-graduate students* during 24 - 25 April 2010 conducted by PSG College of Technology, Coimbatore.
42. **Battery Energy Storage System For A Standalone Wind Mill Based On State-Of-Charge (SOC) Balancing Control**, *National Conference for Post-graduate students* during 24 - 25 April 2010 Conducted by PSG College of Technology, Coimbatore.
43. **Efficiency Improvement On PV Water Pumping System By Automatic Water Spraying Over Cells**, *National Conference for Post-graduate students* during 24 - 25 April 2010 conducted by PSG College of Technology, Coimbatore.
44. **An Overview of Characteristics Analysis and Comparison of Different Energy Storage Techniques**, *National Symposium for Post-graduate students* during 24 - 25 April 2010 conducted by PSG College of Technology, Coimbatore.
45. **Development and Fabrication of Voice Actuated Motor Controller**, *National Conference on Applications of Emerging Technology in Electrical Sciences* on 9<sup>th</sup> April 2009 conducted by Dept. of EEE, Velalar College of Engineering & Technology, Erode.
46. **Automatic Recognition of The Fabric Yarn Count Using Digital Image Processing – Review Paper**, *3<sup>rd</sup> National Conference on Advances in Energy Conversion Technologies* during 2- 4, April 2009 Conducted by Dept of Electrical & Electronics Engg., Manipal Institute of Technology, Manipal University.
47. **Electrifying Domestic Appliances Using Flexible Solar Cells – A Boon to The Future Generation**, *National Conference on Automation in solar thermal systems with thin film applications*, 25-27 Sep 2008 conducted by Dept. of Electronics, PSG College of Arts & Science, Coimbatore.
48. **Electronic Jerkin - Rising of Wearable Electronics**, *National Conference on Technical Textiles & Smart Apparel* , 10-11 July 2008, conducted by School of Garment, Apparel & Fashion Technology, Sona College of Technology, Salem, India.
49. **Flexible Solar Cells – Boon to The Future (Power) Generation**, *3<sup>rd</sup> National conference on Emerging Investigations in Electrical Engineering* on 7<sup>th</sup> March 2008, conducted by Dept. of EEE, Dhanalakshmi Srinivasan Engg college of Technology, Perambalur.
50. **Design and Cost Analysis of Renewable Solar Energy of Household Appliances**, *National conference on Innovations in Electrical , Electronics and Control systems* , 29<sup>th</sup> Feb & 1<sup>st</sup> Mar 2008, conducted by Dept. of EEE, Kumaraguru College of Technology, Coimbatore.
51. **Wearable Electronics: Scope and its Applications**, *Smart Textiles – Industry Institute Interactive Meet* , 29<sup>th</sup> Mar 2007, conducted by National Institute of Design, Bangalore.

52. **Textiles in Telemedicine: Scope and Its Applications**, *National Conference on Functional Textiles & Apparels*, 22 - 23 Jan 2007, conducted by Dept. of Textile Technology, PSG CT, Coimbatore.
53. **Implementation of Remote Utilization of Textile Testing Equipments Using Microcontrollers With LabVIEW**, *National Conference on Industrial Problems In Machines And Mechanisms*, 15-16 Dec. 2006 conducted by TIFAC-CORE in Textile Technology & Machinery Kumaraguru College of Technology, Coimbatore.
54. **Microcontroller Based Solar PV System UPS For Domestic Applications**, *National Conference on "Power System Engineering in the Making – Trends & Challenges*, 10-11 Nov 2006 conducted by Department of EEE, Sri Ramakrishna Engineering College, Coimbatore.
55. **Implementation of Optical Instrumentation System In Autoleveller Draw Frame**, *3rd National Conference On Control Instrumentation System*, 3-4 Nov 2006 conducted by Department of Instrumentation and Control Engineering, Manipal Institute of Technology, Manipal. **(Adjudged best paper in the conference)**
56. **Design Development And Implementation of Cost Effective Hybrid Solar PV Residential System With Grid Interfacing**, *National Conference on Recent Advancements in Operation And Control of Large Scale Power Systems*, 25-26 Mar 2006 conducted by Department of Electrical Engineering, Faculty of Engineering & Technology, Annamalai University, Annamalai Nagar.
57. **Electrotextiles: Concepts & Challenges**, *National Conference on Functional Textiles & Apparels* during 20-21 Jan 2006 conducted by Dept. of Textile Technology, PSG CT, Coimbatore.
58. **Design Development and Implementation of Laser Based Autoleveller Draw Frame**, *First National Conference on Emerging Trends in Instrumentation Systems* , 5-6 Jan 2006 conducted by Dept. of Electronics and Instrumentation Engg., Sri Ramakrishna Engineering College, Coimbatore.
59. **Solar PV Power Generation – A Current Strategy and Future Scope**, *National Conference on Recent Trends and Emerging Technologies in Electrical & Electronics Engineering*, 22- 23 Sep 2005 conducted by Dept. of Electrical & Electronics Engg., Park College of Engineering & Technology, Coimbatore.
60. **Energy Auditing And Reduction of Losses in Electrical Systems: Modern Concepts**, *National Conference on Energy Management to Meet the Challenges of Energy Requirements*, 15-17 July 2004 conducted by Dept. of Electrical & Electronics Engg., Kumaraguru College of Technology, Coimbatore.
61. **RS485 Network Protocol Using PIC Microcontrollers**, *National Conference on Challenges in Achieving Global Quality*, 24-25 May 2002, Dept of Mechanical Engg., Thiagarajar College of Engg., Madurai.



62. **Wearable Electronics Clothing - Defence Applications**, *IE (India) Conference* conducted by Dept. of Textile Technology, PSG CT, Coimbatore.
63. **IT Applications In Textiles**, *IE (India) Conference* conducted by Dept. of Textile Technology, PSG CT, Coimbatore.
64. **Ceramic Coated Textiles**, in *NCUTE pilot program on Smart Textiles* conducted by Dept. of Textile Technology, PSG CT, Coimbatore.
65. **Wearable Electronics**, in *NCUTE pilot program on Smart Textiles* conducted by Dept. of Textile Technology, PSG CT, Coimbatore.
66. **Wearable Computers**, *INFOTEX 2002* - National level conference on IT for Textiles conducted by Dept. of Textile Technology, PSG College of Technology, Coimbatore.

### SEMINARS / CONFERENCES ORGANISED

S. No.	Description	Funding Agency
1.	<b>FDP on Integration, Control, and Metering of Renewable Energy Sources for Smart Grid System: A Research Perspective Approach</b> during 20 -26 June 2016 at PSG College of Technology, Coimbatore.	TEQIP II
2.	<b>National Conference on Design, Testing, and Applications of Embedded &amp; Power Electronic Systems</b> during 5-6 May 2016 at PSG College of Technology, Coimbatore.	IAEMP
3.	<b>National Level Workshop on LV Switchgear and Reactive Power Management Techniques</b> during 22- 23 April 2016 at PSG College of Technology, Coimbatore.	IE, India &Yokogowa, Bangalore
4.	<b>National Level Workshop on Model-based Development of Mechatronic Controls with dSPACE</b> during 16-17 October 2015 at PSG College of Technology, Coimbatore.	Dynafusion Technologies, Bangalore.
5.	<b>One Credit Course on Power Electronics in More Electric Aircraft for UG &amp; PG Electrical Science Students</b> during 10 <sup>th</sup> and 26 <sup>th</sup> September 2015 at PSG College of Technology, Coimbatore.	Honewell, Bangalore
6.	<b>National Workshop on Energy Auditing and Conservation Techniques</b> during 3 – 4 July 2015 at PSG College of Technology, Coimbatore.	NIL
7.	<b>National Conference on Design, Testing and Applications of Embedded &amp; Power Electronic Systems</b> during 8 – 9 May 2015 at PSG College of Technology, Coimbatore.	NIL
8.	<b>Four Days National Level Workshop Series in Research Perspective on Solar PV Systems</b> during 26-29 March 2015 at PSG College of Technology, Coimbatore.	NIL
9.	<b>TEQIP II Sponsored FDP on Smart Grid &amp; Renewable Energy Systems</b> during 14 – 20 December at PSG College of	TEQIP II

	Technology, Coimbatore.	
10.	<b>National Level Seminar on Embedded System and Communication protocol used in Automobiles</b> during 12 – 13 December 2014 at PSG College of Technology, Coimbatore.	NIL
11.	<b>National Seminar on Smart Grid Technology &amp; Applications</b> during 10 – 11 October 2014 at PSG College of Technology, Coimbatore.	NIL
12.	<b>Co - Convener for the Training Program On Fundamentals of Solar (Photovoltaic) Energy Conversion and Hands-on Workshop on Diverse Applications</b> on 1 <sup>st</sup> October 2014 organised by PSG College of Technology & PSG Institutes of Advance studies, Coimbatore.	Swiss Federal Institute of Technology at Lausanne/ Ecole Poly technique Fédérale de Lausanne (EPFL)
13.	<b>Awareness Programme on Effective Utilization of Solar PV System for Agriculture Applications</b> during 8 –10 August 2014 at PSG College of Technology, Coimbatore.	TNSCST, Chennai
14.	<b>Advisory Committee Member for Seminar on Business and Entrepreneurship in Solar Energy Systems</b> organized by PSG Institute of Advanced Studies on 7 <sup>th</sup> August 2014.	College of Nanoscale Science @ Engineering Albany, USA
15.	<b>Faculty Development Training Programme on Power System Protection &amp; Switchgear</b> at PSG College of Technology during 23-29 June 2014.	Anna University, Chennai
16.	<b>Two Day Workshop on Model Based Design for Embedded Systems with VisSim</b> during 20 – 21 June 2014, at PSG College of Technology, Coimbatore.	M/s. Visual Solutions Inc., Hyderabad.
17.	<b>National Conference on Recent Trends in Electrical &amp; Electronics Engineering</b> on 9 <sup>th</sup> May 2014, at PSG College of Technology, Coimbatore.	NIL
18.	<b>National Workshop on Energy Auditing &amp; Conservation Techniques</b> during 18 – 19 April 2014 at PSG College of Technology, Coimbatore.	NIL
19.	<b>Staff Development Programme on Energy Efficient Systems</b> for technical staff members on 28 <sup>th</sup> March 2014 at PSG College of Technology, Coimbatore.	TEQIP-II Sponsored
20.	<b>Faculty Development Training Programme on Solid State Drives</b> during 16-22 December 2013 at PSG College of Technology, Coimbatore.	Anna University, Chennai
21.	<b>National Seminar on LV Switchgear</b> on 26 <sup>th</sup> October 2013 at PSG College of Technology, Coimbatore.	NIL

22.	<b>National Seminar on MATLAB &amp; Embedded Systems Applications in Solar PV &amp; Wind Energy Systems</b> during 9 – 10 August 2013, at PSG College of Technology, Coimbatore.	<b>DST</b>
23.	<b>National Conference on Recent Trends in Electrical &amp; Electronics Engineering</b> on 10 <sup>th</sup> May 2013, at PSG College of Technology, Coimbatore.	<b>NIL</b>
24.	<b>National Workshop on LV Switchgear &amp; Reactive Power Management Techniques</b> during 5 – 6 April 2013, at PSG College of Technology, Coimbatore.	<b>NIL</b>
25.	<b>National Conference on Recent Trends in Electrical &amp; Electronics Engineering</b> on 11 <sup>th</sup> May 2012, at PSG College of Technology, Coimbatore.	<b>NIL</b>
26.	<b>International Conference on Renewable Energy Technologies</b> during 15 <sup>th</sup> – 17 <sup>th</sup> December 2011 at PSG College of Technology, Coimbatore.	<b>W2E, USA, DRDO, TNSCST, CSIR &amp; AICTE</b>
27.	<b>International Conference on Enhancements in Power Electronics and Controls</b> during 24 <sup>th</sup> – 25 <sup>th</sup> Nov 2011, at PSG College of Technology, Coimbatore.	<b>Lapp Kabel, Germany, BRNS, DRDO</b>
28.	<b>National Conference on Smart Textiles</b> in Dept. of Textile Technology, PSG College of Technology, Coimbatore.	<b>NCUTE, New Delhi</b>
29.	<b>National Seminar on Renewable Energy Systems</b> 7 - 8 December 2012, at PSG College of Technology, Coimbatore	<b>CSIR &amp; MNRE</b>
30.	<b>National Workshop on Power Quality Issues &amp; Improvement</b> 28 - 29 September 2012, at PSG College of Technology, Coimbatore.	<b>DRDO</b>
31.	<b>National Seminar on, Application of Embedded Systems in Renewable Energy, Power Electronics, and Automotive Systems</b> 9 – 10 March 2012, at PSG College of Technology, Coimbatore.	<b>DRDO</b>
32.	<b>One Credit Course on LV Switchgear</b> for Electrical Science Students in association with L& T, Coonoor on 28 <sup>th</sup> August 2011.	<b>NIL</b>
33.	<b>National Level Workshop on Wind Energy Systems</b> 12– 13 August 2011, at PSG College of Technology, Coimbatore.	<b>NIL</b>
34.	<b>National Level Workshop on LV Switchgear and Reactive Power Management Techniques</b> , 5– 6 August 2011, at PSG College of Technology, Coimbatore.	<b>NIL</b>
35.	<b>National Level Workshop on “LV Switchgear and Reactive Power Management Techniques”</b> , 29 – 30 July 2011, at PSG CT, Coimbatore.	<b>NIL</b>
36.	<b>Faculty Development Programme on “TI C 2000 Microcontroller”</b> , 1 - 2 July 2011 at PSG College of Technology.	<b>Texas Instruments</b>

37.	<b><i>In-house training program on Solar PV Installations</i></b> on 21 <sup>st</sup> March 2011 at Vigyan Institute of Information Technology, Visakhapatnam.	NIL
38.	<b><i>National Level Workshop on Solar PV Installations</i></b> 17 – 19 March 2011 at PSG College of Technology, Coimbatore.	NIL
39.	<b><i>Staff Development Programme on Mathematical Research Challenges in Engineering Application</i></b> 27 <sup>th</sup> Nov to 10 Dec 2010	AICTE
40.	<b><i>Course Specific Workshop on NPTEL</i></b> 5 – 9 April 2010 at PSG College of Technology, Coimbatore.	IIT, Madras
41.	<b><i>Entrepreneurship Awareness Camp</i></b> , 11 -13 Feb 2010 at PSG College of Technology, Coimbatore	DST
42.	<b><i>Short term Course on Energy Auditing and Conservation Techniques</i></b> under Non-formal Continuing Education Cell, PSG College of Technology, Coimbatore.	NIL
43.	<b><i>Short term courses on LV Switchgear</i></b> under Non-formal Continuing Education Cell, during 5 - 6 Sep 2009, PSG College of Technology, Coimbatore.	NIL
44.	<b><i>One Credit Course on LV Switchgear</i></b> for Electrical Science Students in association with L& T, Coonoor on 18 <sup>th</sup> July 2009.	NIL
45.	<b><i>Short term courses on LV Switchgear</i></b> under Non-formal Continuing Education Cell, during 21 - 22 Feb 2009, PSG College of Technology, Coimbatore.	NIL
46.	<b><i>Short term courses on LV Switchgear</i></b> under Non-formal Continuing Education Cell, during 14 - 15 Feb 2009, PSG CT, Coimbatore.	NIL
47.	<b><i>Short term courses on LV Switchgear</i></b> under Non-formal Continuing Education Cell, during 31 <sup>st</sup> Jan to 1 <sup>st</sup> Feb 2009, PSG College of Technology, Coimbatore.	NIL
48.	<b><i>Staff Development Programme on Inculcating Research Aptitude in Engineering Faculty</i></b> , during 3 – 16 May 2008, , PSG College of Technology, Coimbatore.	AICTE
49.	<b><i>Faculty Development Programme on CAD/CAM in Textile Manufacture</i></b> during 14 - 19 November 2005, PSG College of Technology, Coimbatore.	AU, Chennai
50.	<b><i>Short term courses on Computer Aided Fashion Designing</i></b> under Non-formal Continuing Education Cell, PSG CT, Coimbatore.	NIL

## SEMINARS / CONFERENCES ATTENDED

1. Residential Programme on Leadership Enhancement for Professors during 24 – 25 May 2016 conducted by Coimbatore Productivity Council, Coimbatore at Ooty.
2. BSI certified ISO 50001:2008 Lead Auditor Certification course during 14 - 18 April 2016 at Panaji, Goa
3. IEEE International Conference, Preconference workshop on **Smart Grid** held on 21<sup>st</sup> December 2015 at MS Ramaiah Institute of Technology, Bangalore.
4. **2<sup>nd</sup> International Conference on Advances in Functional Smart & Innovative Textiles** during 10-12 December 2015 conducted by PSG Institute of Advanced Studies, Coimbatore.
5. Seminar on **Solar Installations, Economics, Business Opportunities and New Trends in Solar Energy systems** during 11- 12 August 2015 conducted by PSG Institute of Advanced Studies, Coimbatore in collaboration with Colleges of Nanoscale Science and Engineering Albany, USA.
6. Short Term Course on **Power Electronics for Grid Connected Renewable Energy Systems** during 14-16 May 2015 conducted by Dept. of Electrical Engineering, NIT, Calicut
7. Short Term Course under Continuing Education Programme on **Grid Integration of Renewable Energy Sources**, during 18-19 April 2015 conducted by Dept. of Electrical Engineering, IIT Delhi.
8. **Tutorial and Conference on Smart Grid** at India Smart Grid Week during 2 – 6 March 2015 conducted by ISGF, India at BIEC, Bangalore.
9. **Smart Grid Tutorials & Conference** at Smart Grid Week 2015 at Bangalore during 2 - 3 March 2015 conducted by ISGF, India.
10. **Intensive Preparatory Training Course for prospective Energy Manager / Energy Auditors** conducted by National Productivity Council, Chennai during 21 – 25 July 2014.
11. Residential Training Programme on **Project Management & Financial Monitoring**, at Gangtok, Sikkim during 26-30 May 2014, conducted by National Productivity Council.
12. Two Days Workshop on **Smart Transmission Grid Challenges – Integration of Renewable**, CPRI, Bangalore during 20 – 21 March 2014.
13. Three Days Workshop on **String Inverters and Off Grid Systems** at SMA Solar Academy, Mumbai during 21– 23 August 2013.
14. TEQIP sponsored one Week Faculty Development Programme on **Analysis of Electrical & Electronic Systems using MATLAB and PSPICE** organized by Dept. of Electrical & Electronics Engineering, PSG College of Technology, Coimbatore during 20-26 June 2013.
15. AICTE- SDP on **Avenues for Advanced Research in Modern Power Electronics & Hybrid Energy Systems**, Conducted by Government College of Technology, Coimbatore during 15-28 May 2013.
16. One day **Workshop on NPTEL** jointly organized by IIT Madras and Sri Krishna College of Engineering & Technology, Coimbatore on 28<sup>th</sup> March 2013.
17. Five Days Workshop on **Renewable Energy and PV Technologies** at Steinbeis Centre for Solar Technologies & Training, Chennai (A Steinbeis Foundation Company, Germany) during 11-15 Feb 2013.
18. Seminar on **Nanotechnology for Energy, Environment and Health** Organized by PSG Institute of Advanced Studies in collaboration with University at Albany State University of New York, USA, during 15-16 October 2012.

19. Training programme on **Solar PV Grid Connected Power Plants** organized by KPCL, Karnataka, in association with MNRE, New Delhi during 12 – 17 March 2012.
20. ISTE Workshop on **Solar Photovoltaic's: Fundamentals, Technologies & Applications** conducted by IIT, Bombay during 12 – 22 December 2011.
21. Training on **Lapp Cables – Network & Automation** conducted by M/s. Lapp Kabel, Germany during 10 - 12 Oct 2011.
22. Training on **Roof Mounted Solar PV Installations and Testing Procedures** conducted by M/s. Wurth Solar Academia, Germany during 4-8 Oct 2011.
23. ISTE – STTP on **Nanotechnology and its applications** conducted by Dept. of EEE, Coimbatore Institute of Technology, Coimbatore, during 9-22 May 2011.
24. Training on “**Certificate Course in ARM**” conducted by SANDS Instrumentation Pvt., Ltd., Chennai during 2-7 May 2011.
25. International training Programme on “**Solar PV Installations, Cabling and Maintenance Techniques**” conducted by Renewable Energy Centre, Mithradaham, Aluwa, Kerala during 4-8 Oct 2010.
26. National Workshop on **Wind Energy Technology** from 21- 23 July 2010 at Center for Wind Energy Technology, Chennai.
27. Training on **L V Switchgear Maintenance – Power Feeder** from 5 - 7 May 2010, at L&T's Switchgear Training Centre, Coonoor.
28. One Week Workshop on **Distribution Automation** during 16-20 Nov 2009, Conducted by NPTI, Bangalore.
29. Two day Workshop on **Strategic Innovation Execution for Leaders and Managers** during 5 - 6 Nov 2009, at Hotel ITC Windsor, Bangalore, conducted by CII, Southern Region.
30. Two day Workshop on **Energy Audit - A Tool for Cost Reduction** during 12-13 Sep 2009, Conducted by IIEM, Chennai.
31. Two day Animation Software training programme on **Maya & Combustion** during 6 – 7 Feb, 2009, conducted by PSG Polytechnic College, Coimbatore.
32. Two day symposium on **Biosensors** during 13- 14 Feb 2009, Conducted by Dept. of Biotechnology, PSG College of Technology, Coimbatore.
33. One day workshop on “**Embedded Systems**” conducted by Product Development Centre, PSG college of Technology, Coimbatore on 2<sup>nd</sup> August 2008.
34. Faculty Development Programme on **Secure Electronic transaction and Elliptic Curve Cryptography for Security Devices and Software** sponsored by TATA Consultancy Services (TCS) conducted at PSG College of Technology, Coimbatore on 14<sup>th</sup> July, 2008.
35. Faculty Development Programme on **Electric Energy and Power** Conducted by Indo US Engineering Faculty Leadership Institute Summer 2008 at Global Education center, Infosys Technologies Ltd, Mysore during 7- 11 July, 2008.
36. One day seminar on **Bio & Nano Materials** conducted by PSG Institute of Advanced Studies on 7<sup>th</sup> May 2008.
37. **QIP** workshop short term course on “**IT in Health Care**” conducted by IIT, Delhi, during 17 - 21 Dec 2007.
38. AICTE – Staff Development Programme on “**Recent Trends in Industrial Controls**” conducted by Dept. of Electrical & Electronics Engg., PSG College of Technology during 11 - 24 Nov, 2007.
39. **QIP** workshop on “**MEMS and Microsystems**” conducted by IIT, Kharagpur, during 28 - 2 June 2007.

40. **Tele health Technology Course** conducted by Centre for Professional Development Education (CPDE), Anna University & Apollo Telemedicine Networking Foundation , Chennai during 23 - 7May 2007.
41. Training on **L V Switchgear** from 11 - 13 Nov 2006, at L&T's Switchgear Training Centre, Coonoor.
42. National Seminar on **Instrumentation engineering - Teaching, Practices and Research** during 27 - 28 Oct 2006 MIT, Chennai.
43. International training Programme on Solar **PV Installations** conducted by Renewable Energy Centre, Mithradaham, Aluwa, Kerala during 9- 14 Oct 2006.
44. Training on **Intellisuite MEMS software** at Lemaridan, Bangalore conducted by M/s. Intellisuite, USA during 7 - 8 Aug 2006.
45. **Pedagogic system** conducted by PSG IM, Coimbatore on 5th Aug 2006.
46. **MEMS Awareness Programme** conducted by MEMS Core Committee PSG College of Technology on 20<sup>th</sup> May 2006.
47. AICTE – Staff Development Programme on **Multidisciplinary Research Workshop in Creativity Studies** conducted by Dept. of Computer Science & Engg., PSG College of Technology during 23<sup>rd</sup> April to 6<sup>th</sup> May 2006.
48. Training on **Intellisuite MEMS software** conducted by MEMS Core Committee, PSG College of Technology during 19 - 21 Apr 2006.
49. **Design Fabrication, Manufacturing & troubleshooting of modernized Auto-leveler Draw fame machines** conducted by S.K Associates, Coimbatore during 21 - 27 Nov 2005.
50. One day seminar on **Learn with LabVIEW** conducted by M/s. National Instruments, Bangalore & Dept of EEE, PSG College of Technology on 3<sup>rd</sup> Feb 2005.
51. Seminar for **Software Packages MathCAD and VisSIM** conducted by M/s. Paradigm Pvt., Ltd., and Dept. of ECE , PSG College of Technology 13<sup>th</sup> Aug 2004.
52. **RF measurement symposium** conducted by Dept. of ECE, PSG CT and M/s Agilent Technologies, Bangalore during 30 - 31 Jan 2004.
53. AICTE - ISTE STTP on **Instrumentation in Textile Quality Evaluation to Meet International Standards** conducted by Dept. of Textile Technology, PSG CT during 31<sup>st</sup> May to 12<sup>th</sup> Jun 2004.
54. One day seminar on **Microsoft Security Services** conducted by M/s. Microsoft, Bangalore in Hotel Residency, Coimbatore on 27<sup>th</sup> May 2004.
55. Training for **Design Fabrication, Manufacturing & troubleshooting of modernized Vouk Autoleveller Draw fame machines** SK Associates, Coimbatore during 21 - 29 May 2004.
56. ISTE (TN & Pondi Section) **Workshop on PLC** conducted by Erode Sengunthur Engineering College, Perundurai during 7 - 8 May 2004.
57. **Intensive workshop on Fiber Optic Communication** conducted by Dept. of ECE, PSG CT & M/s. Benchmark Systems, Bangalore 7 - 8 Feb 2004.
58. Seminar on **Advanced multimedia production & Digital Film making techniques** conducted by SAE, Bangalore & PSG CT on 30<sup>th</sup> Jan 2004 (Evening).
59. **NCUTE Programme Instrumentation in Garment Process** conducted by KSR College of Technology, Tiruchengode during 17 - 18 Nov 2003.
60. AICTE – STTP on **Industrial Exposure to Textile Teacher – Textile manufacturing sector** conducted by Kumaraguru College of Technology, Coimbatore during 12-14 Jun 2003.

## SPECIAL LECTURES DELIVERED

1. **Invited Speaker** for IE sponsored **National Level Workshop on LV Switchgear and Reactive Power Management Techniques** on 22<sup>nd</sup> April 2016 conducted by Dept. of EEE at PSG Tech, Coimbatore.  
**Topic: Introduction to LV switchgear – Switches, Fuses & Starters**
2. **Invited Speaker** for EEE Department Association Function conducted on 15<sup>th</sup> March 2016 by Sri Eshwar College of Engineering, Coimbatore.  
**Topic: Overview of FACTS devices and its Recent Developments**
3. **Invited Speaker** for National Level Workshop on “**Solar and Wind Energy Conversion Systems – Hands-on Training**” under TEQIP – II , Center of Excellence on Alternate Energy Research on 12<sup>th</sup> March 2016 conducted by Dept. of EEE, GCT, Coimbatore  
**Topic: Integration of Small Wind Turbine Systems in Microgrid**
4. **Invited Speaker** for the Dept. Association Function at Akshaya College of Engineering & Technology on 3<sup>rd</sup> March 2016  
**Topic: Control Systems**
5. **Invited Speaker** of the EEE Association Function at Nandha Engineering College on 29<sup>th</sup> Feb 2016.  
**Topic: Basics and Latest innovations in Electronics**
6. **Keynote Speaker** for the DBT sponsored Seminar on Advances in Biofuel Technologies for a Sustainable Solution to Energy Crisis, conducted by Dept. of EEE, Kongu Engg., College on 25<sup>th</sup> Feb 2016.  
**Topic: First Generation Biofuel Technologies**
7. **Keynote Speaker** for the Department Association function at Faculty of Engineering, Avanashilingam University for Women, Coimbatore on 28<sup>th</sup> Jan 2016.  
**Topic: Implication of Wearable Electronics**
8. **Keynote Speaker** for the AICTE sponsored QIP STC on Embedded Systems Design on 26<sup>th</sup> Nov 2015 conducted by Dept. of EEE, CIT, Coimbatore.  
**Topic: Implication of Embedded System in RES**
9. **Keynote Speaker** for the AICTE-SDP Technical Textiles - Manufacturing, Testing, Design Analysis of Products and Their Applications, on 19<sup>th</sup> Nov 2015 conducted by Department of Textile Technology, Kumaraguru College of Technology, Coimbatore.  
**Topic: Latest Advancements in Smart Textiles**
10. **Keynote Speaker** for the BLEND2015 – TechTalk conducted at Robert Bosch Engineering Solutions Ltd., Coimbatore on 19<sup>th</sup> October 2015.  
**Topic: Innovations in Wearable Electronics.**



11. **Invited Speaker** for the National Seminar on Biomedical Systems conducted by Dept. of Biomedical Engineering, Sri Ramakrishna College of Engineering, Coimbatore on 12<sup>th</sup> September 2015.  
**Topic: Embedded Application in Biomedical Systems.**
12. **Invited Speaker** for the National Conference on Alternate Energy Systems conducted by Dept. of EEE, SNS college of Technology, Coimbatore on 13<sup>th</sup> August 2015.  
**Topic: Renewable Energy Systems**
13. **Invited Speaker** for the Dept. of EEE Association Function at Dr. NGP Institute of Technology on 31<sup>st</sup> July 2015  
**Topic: Energy Auditing Methodology**
14. **Keynote Speaker** for the Department Association Function by Dept of Commerce at Dr. NGP College of Arts & Science, Coimbatore on 16<sup>th</sup> July 2015.  
**Topic: Green Marketing**
15. **Keynote Speaker** for the National Workshop on Energy Auditing & Conservation Techniques conducted by Dept. of EEE, PSG College of Technology, on 3<sup>rd</sup> July 2015.  
**Topic: Energy Auditing Methodology and Implication of Renewable Energy Systems**
16. **Invited Speaker** for the TNSCST sponsored Three days programme on 'Science and Technology Capacity Building for Industrial Needs' conducted by Angel College of Engineering and Technology, Tirupur on 9<sup>th</sup> July 2015.  
**Topic: Time Management and Team Building for Budding Engineers.**
17. **Keynote Speaker** for the MNRE sponsored National Seminar on Emerging Trends in Solar and Energy Storage Technologies conducted by Dept. of EEE, Muthyammal College of Engineering, Rasipuram on 10<sup>th</sup> July 2015.  
**Topic: Emerging Trends in Solar PV Technologies.**
18. **Keynote Speaker** for the TEQIP II Sponsored Industry Institute Interaction Meeting on 20<sup>th</sup> March 2015 conducted by Dept. of EEE, GCT, Coimbatore.  
**Topic: Introduction to Switchgear**
19. **Keynote Speaker** for the TEQIP-II CoE-AER Sponsored Faculty Development Programme The Rise of Renewable - Integration Challenges And Opportunities on 16<sup>th</sup> June 2015 conducted by Dept. of EEE, GCT, Coimbatore.  
**Topic: Challenges in selection of Power Converters for RES.**
20. **Keynote Speaker** for the National Level Workshop on Energy Auditing and Conservation Techniques on 4<sup>th</sup> July conducted by Dept. of EEE, GCT, Coimbatore.  
**Topic: Energy Auditing Methodology and Implication of Renewable Energy Systems.**
21. **Keynote Speaker** for TEQIP Sponsored FDP on Research issues in Renewable energy systems Conducted by Dept. of EEE, GCT, Coimbatore on 27<sup>th</sup> May 2015.

22. **Keynote Speaker** for the Four Days National Level Workshop Series in Research Perspective on Solar PV Systems conducted by Dept. of EEE, PSG College of Technology, on 26<sup>th</sup> March 2015.

**Topic: Basics of Solar Energy and Solar PV Systems**

23. **Keynote Speaker** for the Four Days National Level Workshop Series in Research Perspective on Solar PV Systems conducted by Dept. of EEE, PSG College of Technology, on 29<sup>th</sup> March 2015.

**Topic: Hands-on Training on Solar PV Products**

24. **Keynote Speaker** for the Renewable Energy Club at Dept. of EEE, Nanda College of Engineering, Perundurai on 17<sup>th</sup> March 2015.

**Topic: Renewable Energy Integration in Smart Grid**

25. **Keynote Speaker** for International Conference on Innovative Research Techniques in Management, Aeronautical, Mechanical & Electrical Systems organised by Dept. of EEE, Kalaignar Karunanidhi Institute of Technology, Coimbatore on 13<sup>th</sup> Feb 2015.

**Topic: Power Converters for Solar PV Systems**

26. **Keynote Speaker** for ISTE Regional Conference on the Role of Technical Education in Energy Conservation organised by ISTE, TN & P Section and Sona College of Technology, Salem on 5<sup>th</sup> Feb 2015.

**Topic: Energy Conservation Methods & Procedures – A Glimpse**

27. **Keynote Speaker** for the MNRE sponsored One Day Workshop on "Power Electronics Applications in Micro Hydro Power Development", by Dept of EEE, Karunya University, Coimbatore on 1<sup>st</sup> October 2014.

**Topic: Power electronics in Micro Hydro Power Plant.**

28. **Resource Person** for the National Seminar on Smart Grid Technology and Applications conducted by Dept. of EEE, PSG College of Technology, Coimbatore on 11<sup>th</sup> Oct 2014.

**Topic: Renewable Energy & Grid Integration Techniques in Smart Grid Architectures.**

29. **Resource Person** for the TEQIP (II) sponsored FDP on Embedded & Real –Time Software & Systems conducted by Dept. of EEE, PSG College of Technology on 14<sup>th</sup> October 2014.

**Topic: Embedded System Applications in Wearable Electronics**

30. **Resource Person** for the TEQIP (II) sponsored FDP on Embedded & Real –Time Software & Systems conducted by Dept. of EEE, PSG College of Technology on 15<sup>th</sup> October 2014.

**Topic: Embedded System Applications in Renewable Energy Systems.**

31. **Resource Person** for the National Level Seminar on Embedded System and Communication protocol used in Automobiles on 12<sup>th</sup> December 2014 conducted by Dept. of EEE, PSG College of Technology, Coimbatore.

**Topic: Introduction to Embedded System in Automotive and its Feature.**

32. *Resource Person for TEQIP II Sponsored FDP on Smart Grid & Renewable Energy Systems on 14<sup>th</sup> Dec 2014 conducted by Dept. of EEE, PSG College of Technology, Coimbatore.*  
**Topic: Integration of Renewable Energy in Smart Grid**
33. **Resource Person** for the TNSCST sponsored Awareness Programme On Effective Utilization of Solar PV System For Agriculture Applications at Dept. of EEE, PSG College of Technology on 9<sup>th</sup> August 2014.  
**Topic: Methods for efficient use of Solar PV Systems.**
34. **Resource Person** for the TNSCST sponsored Awareness Programme On Effective Utilization of Solar PV System For Agriculture Applications at Dept. of EEE, PSG College of Technology on 8<sup>th</sup> August 2014.  
**Topic: Power Conditioning Unit of Solar PV Systems & Design consideration for Solar PV Products.**
35. **Resource Person** for the TNSCST sponsored Awareness Programme On Effective Utilization of Solar PV System For Agriculture Applications at Dept. of EEE, PSG College of Technology on 8<sup>th</sup> August 2014.  
**Topic: Solar PV Systems & its Components.**
36. **Resource Person** for the TNSCST sponsored Awareness Programme On Effective Utilization of Solar PV System For Agriculture Applications at Dept. of EEE, PSG College of Technology on 8<sup>th</sup> August 2014.  
**Topic: Solar PV Systems & its Components.**
37. **Invited Speaker** for the, Association Function at Dept. of EEE, Sona College of Technology, Salem on 4<sup>th</sup> July 2014.  
**Topics: Implication of RES in Smart Grid**
38. **Resource Person** for the Faculty Development Training Programme on Power System Protection & Switchgear at PSG College of Technology on 23<sup>rd</sup> June 2014.  
**Topic: Electrical System Layout and Switchgear components.**
39. **Resource Person** for the Two Day Workshop on Model Based Design for Embedded Systems with VisSim during 20 – 21 June 2014, at PSG College of Technology, Coimbatore  
**Topic: Introduction to VisSim and their implications in Real time Applications.**
40. **Resource Person** for the National Workshop on Energy Auditing & Conservation Techniques conducted by Dept. of EEE, PSG College of Technology, Coimbatore on 18<sup>th</sup> April 2014.  
**Topic: Energy Auditing Methodology and Implication of Renewable Energy Systems.**
41. **Resource Person** for the CSIR sponsored national level seminar on "Recent Trends in Production & Effective Utilization Techniques of Bio-Fuels In Energy Sector conducted by Dept. of EEE, Nanda College of Engineering, Perundurai.

**Topic: Fuel Cell and its Power Electronic Interface.**

42. **Resource Person** for the TEQIP – II Sponsored staff development programme on energy efficient systems for Technical Staff Members] conducted by Dept. of EEE, at PSG College of Technology, Coimbatore on 28<sup>th</sup> March 2014.

**Topic: Energy Efficiency through Renewable Energy and Green Buildings.**

43. **Resource Person** for the MNRE sponsored two day National Level Workshop on, “Energy Efficient solar/Green Buildings Initiatives” conducted by Dept. of EEE, Bannari Amman Institute of Technology, Sathamangalam on 22<sup>nd</sup> March 2014.

**Topic: Latest Trends in Wind Energy Technology.**

44. **Resource Person** for the DST Sponsored National Level Seminar on Integration of Renewable Energy conducted by Dept of EEE, Vivekanandha College of Engg., for Women, Tiruchengode on 25<sup>th</sup> Feb 2014.

**Topic: Integration of Solar PV systems.**

45. **Invited Speaker** in Dept. of EEE, Association Function on 22<sup>nd</sup> Feb 2014 at Akshaya College of Engineering and Technology, Coimbatore

**Topic: Linear Integrated Circuits: Theory & Applications.**

46. **Resource Person** for Two Days Workshop on Advanced Power Electronics and Motor Control Simulation Techniques on 21<sup>st</sup> Feb 2014, conducted by Dept. of EEE, Sri Ramakrishna Engineering College, Coimbatore.

**Topic: PMSM: Operation, Control, Application and Simulation Techniques.**

47. **Invited Speaker** for TEQIP II FDP on "Recent Advances in Bio-Sensors for Health Care Technology on 19<sup>th</sup> Feb 2014, conducted by Dept. of Biomedical Engineering, PSG College of Technology, Coimbatore

**Topic: Textile Based Sensors.**

48. **Invited Speaker** for National Level Seminar on Smart Grid Technology for Renewable Energy Sources on 31<sup>st</sup> Jan 2014 at Vivekananda Engineering College for Women, Sankari.

**Topic: Smart Grid for Solar PV & Wind Energy Systems.**

49. **Invited Speaker** for EEE Association function on 25<sup>th</sup> Jan 2014 at Sri Krishna College of Engineering & Technology, Coimbatore.

**Topic: Smart Grid.**

50. **Keynote Speaker** for AICTE Sponsored National Level Seminar on Renewable Energy Sources for Sustainable Development on 24<sup>th</sup> Jan 2014 at Thiagarajar Polytechnic College, Salem.

**Topic: Solar PV & Wind Energy Systems.**

51. **Invited Speaker** for Industry Institute Partnership Cell Guest Lecture on 28<sup>th</sup> December 2013 at Thiagarajar Polytechnic College, Salem.

**Topic: Renewable Energy Systems.**

52. **Invited Speaker** for *FDTP on Solid State Drives on 16<sup>th</sup> December 2013 at PSG College of Technology, Coimbatore.*  
**Topic: SRM Drives.**
53. **Keynote Speaker** for *Workshop on Renewable Energy of Environment Development Managers by Staff Project Coordination Unit, DOTE, Chennai at PSG Polytechnic College, Coimbatore on 20<sup>th</sup> December 2013.*  
**Topic: Solar PV Systems.**
54. **Keynote Speaker** for *Celebration of Energy Conservation Week at TANGEDCO, Mettupalayam on 18<sup>th</sup> December 2013.*  
**Topic: Trends in Renewable Energy Systems.**
55. **Invited Speaker** for *FDTP on Solid State Drives on 21<sup>st</sup> December 2013 at PSG College of Technology, Coimbatore.*  
**Topic: Application of SRM and SRM drives.**
56. **Invited Speaker** for *FDTP on Solid State Drives on 16<sup>th</sup> December 2013 at PSG College of Technology, Coimbatore.*  
**Topic: Electric Drives**
57. **Invited Speaker** for *FDTP on Solid State Drives on 14<sup>th</sup> December 2013 at Sri Ramakrishna College of Engineering, Coimbatore.*  
**Topic: SRM Drives.**
58. **Keynote Speaker** for *FDP ISTE Chapter on 10<sup>th</sup> December 2013 at Angel College of Engineering & Technology, Tirupur.*  
**Topic: NBA and its relevance.**
59. **Keynote Speaker** for *National Seminar on “LV Switchgear” on 26<sup>th</sup> October 2013 at PSG College of Technology, Coimbatore.*  
**Topic: Introduction to LV Switchgear and Contactors**
60. **Invited Speaker** for *One day seminar on “Power Electronics Applications in Solar and Wind Energy using MATLAB” at Dept. of EEE, K.L.N. College of Engineering, Madurai on 04.10.13.*  
**Topic: Power Electronics Applications in Solar and Wind Energy using MATLAB.**
61. **Invited Speaker** for *One Day Workshop on “Soft Computing Applications to Solar – Wind Integrated Systems and Energy Auditing” (Under TEQIP Phase – II), conducted by Dept. of EEE, GITAM Institute of Technology, GITAM University, Visakhapatnam on 21<sup>st</sup> September 2013.*  
**Topic: MATLAB and Embedded System applications to Solar – Wind Integrated Systems & Energy Auditing and Energy Management.**

62. **Keynote Speaker** for MNRE Sponsored National Seminar on “Renewable Energy and its Rural Reach”, Conducted by Dept. of Mechanical Engg., Karpagam Institute of Technology, Coimbatore on 19<sup>th</sup> September 2013.  
**Topic: Energy Crisis in India - A Scenario.**
63. **Invited Speaker** for CSIR sponsored Sustainable Development Workshop on “Renewable Modelling and Environmental Production”, Dept. of EEE, Sri Krishna College of Engineering & Technology, Coimbatore on 13<sup>th</sup> August 2013.  
**Topic: Hybrid Energy Systems.**
64. **Invited Speaker** for FDP on "Solid State Drives" conducted by Dept. of EEE, Bannari Amman Institute of Technology, Erode on 17<sup>th</sup> June 2013.  
**Topic: SRM Drive**
65. **Invited Speaker** for AICTE staff development programme on “Strategies for Environmentally Conscious Product Design and Manufacturing” conducted by Department of Mechanical Engineering PSG College of Technology, Coimbatore on 14<sup>th</sup> June 2013.  
**Topic: Energy Efficient Solar PV Systems.**
66. **Invited Speaker** for AICTE Sponsored Faculty Development Programme on “Green Energy Development in India & People’s Contributions in Achieving Self- Sufficiency in Power” conducted by Dept. of EEE, Kalaignar Karunanidhi Institute of Technology, Coimbatore on 13<sup>th</sup> June 2013.
67. **Invited Speaker** for FDP on "Special Electrical Machines" conducted at Anna University, Regional Centre, Coimbatore on 11<sup>th</sup> June 2013.  
**Topic: SRM Motor: Working, Characteristics & Application.**
68. **Invited Speaker** for AICTE Sponsored Faculty Development Programme on “Smart Grid Challenges & Opportunities” conducted by Dept. of EEE, Govt. College of Technology, Coimbatore on 8<sup>th</sup> June 2013.  
**Topic: Smart Power Generation – Case Studies.**
69. **Invited Speaker** for AICTE Sponsored Faculty Development Programme on “Advanced Control Strategies and Applications” conducted by Dept. of EEE, Sri Ramakrishna Institute of Technology on 24<sup>th</sup> May 2013.  
**Topic: Control Applications in Solar PV.**
70. **Invited Speaker** for AICTE Sponsored Faculty Development Programme on the topic “Recent Advancements In Generation and Utilization of Renewable Energy ” conducted by Dept. of EEE, K.S.R College of Engineering, Tiruchengode on 20<sup>th</sup> May 2013.  
**Topic: Wind Energy Technology: Present Scenario.**
71. **Invited Speaker** for AICTE Sponsored Faculty Development Programme on “Nanotechnology for Sustainability: Energy Conversion & Storage” conducted by Dept. of EEE, K.S.R College of Technology, Tiruchengode on 13<sup>th</sup> May 2013.  
**Topic: Power Converters for Renewable Energy Systems.**

72. **Invited Speaker** for AICTE sponsored two week Staff Development Programme on “Power Electronic Application to Renewable Energy Generation” conducted by Dept. of EEE, Government College of Engineering , Salem on 9<sup>th</sup> May 2013.  
**Topic: Power Electronics Applications in Solar PV Technology.**
73. **Keynote Speaker** for Seminar on Solar Energy - Empowering Nation on 27<sup>th</sup> March 2013 at Erode Builders Educational Trust’s Group of Institutions, Kangayam.  
**Topic: Solar PV: Theory, Design & Application.**
74. **Keynote Speaker** for MNRE sponsored Two day National Level Workshop on The Future of Wind Power: Innovations & Research Challenges on 23<sup>rd</sup> March 2013.  
**Topic : Research Issues in Wind Turbine Technology.**
75. **Keynote Speaker** for CSIR Sponsored Two Day Workshop on Intelligent Controllers for Renewable Energy Systems on 22<sup>nd</sup> March 2013 at Paavai Engineering College, Namakkal.  
**Topic: Photovoltaic Power Generation & Energy Storage Technologies.**
76. **Invited Speaker** for Refresher course on Vision & Challenges of Cloud Computing & Pervasive Computing, School of Information Technology, Dr.GRD College of Science, Coimbatore on 4<sup>th</sup> March 2013.  
**Topic: Wearable Computer: Theory, Design & Applications.**
77. **Invited Speaker** in Dept. of EEE, Association Function, Akshaya College of Engineering and Technology, Coimbatore.  
**Topic: Linear Integrated Circuits: Theory & Applications.**
78. **Keynote Speaker** for seminar on Energy conservation for industries on 7<sup>th</sup> Feb 2013 at SITRA, Coimbatore.  
**Topic: Solar PV system for Industrial Application.**
79. **Keynote Speaker** for Ministry of Earth Sciences Sponsored National Seminar on Role of Sustainable Green Energy Revolution in RURAL on 29<sup>th</sup> Dec 2012 at K.S.R.College of Engineering, Tiruchengode.  
**Topic: Wind Energy Systems.**
80. **Invited Speaker** for National Environmental Day Celebration at ITC Ltd., PSPD, Unit :Kovai on 18<sup>th</sup> December 2012.  
**Topic: Non-Conventional energy for Process Industry.**
81. **Keynote Speaker** for CSIR Sponsored National level Seminar on Vivekanandha Institute of Engineering and Technology for Women, Tiruchengode on 17<sup>th</sup> December 2012.  
**Topic: Soft Computing Techniques in Wind Energy Systems.**
82. **Invited Speaker** for the National Energy Conservation Day Celebration at Muthaiammal College of Engineering, Namakkal on 17<sup>th</sup> December 2012.  
**Topic: Energy Conservation and its Techniques.**
83. **Keynote Speaker** for the CSIR & MNRE National Seminar on Renewable Energy Systems on 8<sup>th</sup> December 2012 at PSG College of Technology, Coimbatore.

**Topic: Wind Energy Technology and Applications.**

84. **Keynote Speaker** for the CSIR & MNRE National Seminar on Renewable Energy Systems on 7<sup>th</sup> December 2012 at PSG College of Technology, Coimbatore.

**Topic: Integrated Photovoltaic, Grid Integration & its Issues.**

85. **Keynote Speaker** for the National Seminar on Renewable Energy Systems on 29<sup>th</sup> Sep 2012 at SVS College of Engineering, Coimbatore.

**Topic: Solar PV & Wind Energy Systems – Scope & Applications.**

86. **Keynote Speaker** for the DDRO sponsored National Workshop on Power Quality Issues & Improvement on 28<sup>th</sup> Sep 2012, at PSG College of Technology, Coimbatore.

**Topic: Power Quality Problems – Voltage Swells, Sags & PQ Standards.**

87. **Keynote Speaker** for the National Seminar on Solar PV Systems at Dept of EEE, KPR Institute of Technology, Coimbatore.

**Topic: Building Integrated Photovoltaic.**

88. **Keynote Speaker** for the National Seminar on Electronics System Design and Automation on 14<sup>th</sup> Sep 2012 at Karunya University.

**Topic: Electronic System Design and Manufacturing- Scope, Objectives & Applications.**

89. **Keynote Speaker** for the National Seminar on, Application of Embedded Systems in Renewable Energy, Power Electronics, and Automotive Systems on 10<sup>th</sup> March 2012 at PSG College of Technology, Coimbatore.

90. **Keynote Speaker** for the National Seminar on Industrial Drives on 27<sup>th</sup> Jan 2012 at Selvam College of Technology, Namakkal.

**Topic: AC/DC Drives.**

91. **Keynote Speaker** for the AICTE – SDP on 10<sup>th</sup> Aug 2011 at Sri Ramakrishna Engineering College, Coimbatore

**Topic: Industrial Drives.**

92. **Keynote Speaker** for the Industry Institute Interaction on 2<sup>nd</sup> June 2011 at Nanda College of Engineering, Perundurai.

**Topic: Industry Institute Interaction – Scope & Objectives.**

93. **Keynote Speaker** for the National Level Workshop on Wind Energy Systems on 12<sup>th</sup> Aug 2011, at PSG College of Technology, Coimbatore.

**Topic: Components of WECS.**

94. **Keynote Speaker** for the National Level Workshop on LV Switchgear & Reactive Power Management Techniques on 29<sup>th</sup> July 2011, at PSG College of Technology, Coimbatore.

**Topic: Starters & Contactors.**

95. **Keynote Speaker** for the National Level Workshop on Solar PV installations on 18<sup>th</sup> Mar 2011 at PSG College of Technology, Coimbatore.

**Topic: Basics of Solar Energy & Components of Photovoltaic System.**



96. **Keynote Speaker** for Awareness Programme on Renewable Energy Systems at Dept. of EEE, Angel College of Engineering, Tirupur.  
**Topic: Solar PV & Wind Energy Systems.**
97. **Keynote Speaker** for the National Seminar on Solar PV on 21<sup>st</sup> March 2011 at Vigyan Institute of Information Technology, Visakhapatnam.  
**Topic: Solar PV & Installations.**
98. **Keynote Speaker** for the EEE Association Function at Rudraveni Muthuswamy Polytechnic College, Udumalpet.  
**Topic: Textile Control Engineering.**

**CHAIRPERSON / SESSION CHAIR IN SEMINARS / CONFERENCES / SYMPOSIUMS / WORKSHOPS**

1. **Session Chairman** for the National Conference on Renewable Energies conducted on 7<sup>th</sup> April 2016 conducted by Dept. of EEE, Govt. College of Technology, Coimbatore.
2. **Invited Lecture** for the National Conference on Sustainability in Fashion and Apparels Challenges & Solutions on 13<sup>th</sup> Feb 2016 conducted by Dept. of Fashion Technology, PSG College of Technology, Coimbatore.
3. **Session Chairman** for the track Energy Systems in Kerala Technological Congress 2016 on 8<sup>th</sup> Jan 2016 conducted at Amal Jyothi College of Engineering, Kotayam.
4. **Session Chairman for the** International Conference on Computer Communication and Informatics (ICCCI 2016 on 9<sup>th</sup> January 2016 at Sri Shakthi Institute of Engineering and Technology, Coimbatore
5. **Session Chairman** for the 6<sup>th</sup> National Conference on New & Renewable Energy Technologies conducted on 25<sup>th</sup> April 2015 by Dept. of Energy, PSG College of Technology, Coimbatore
6. **National Advisory Committee Member**, National Conference on Recent Advancements in Control, Power Electronics and Power Systems using Soft Computing Techniques conducted on March 14, 2015 by Dept. of EEE, N.S.N College of Engineering and Technology, Karur, Tamilnadu.
7. **Session Chairman** International Conference on Computer Communication and Informatics held at Sri Shakthi Institute of Engineering & Technology, Coimbatore on 9<sup>th</sup> January 2015.
8. **Session Chairman** International Conference on Innovative Research Techniques in Management, Aeronautical, Mechanical & Electrical Systems organised by Dept. of EEE, Kalaingar Karunanidhi Institute of Technology, Coimbatore on 13<sup>th</sup> Feb 2015.
9. **Session Chairman**, International Conference on Sustainable Energy and Environmental Engineering during September, 11-12, 2014 conducted by WASET, Singapore.
10. **Session Chairman** for International Conference on "Renewable Energy Utilization hosted at Dept. of EEE, Coimbatore Institute of Technology, Coimbatore on 8<sup>th</sup> Jan 2014.

11. **Session Chairman** for *International Conference on Intelligent and Efficient Electrical Systems hosted at Dept. of EEE, PSG College of Technology, Coimbatore on 12<sup>th</sup> December 2013.*
12. **Session Chairman** for the *8<sup>th</sup> International Telemedicine Conference – Telemedicon 12, Conducted by Telemedicine Society of India at Hotel LeMeridian, Coimbatore during 29<sup>th</sup> Nov – 1<sup>st</sup> Dec 2012.*
13. **Session Chairman** for the *National Seminar on Alternate Energy Sources on 30<sup>th</sup>-31<sup>st</sup> August 2012, Conducted by Dept of Chemistry, PSG R Krishnammal College for Women, Coimbatore.*
14. **Session Chairman** for the *International Conference on Renewable Energy Technologies on 16<sup>th</sup> Dec 2011 at PSG College of Technology, Coimbatore.*
15. **Session Chairman** *International Conference on Enhancements in Power Electronics and Controls on 24<sup>th</sup> Nov 2011, at PSG College of Technology, Coimbatore.*

## MEMBERSHIP DETAILS

### Editorial Member

- Technology Information Management Entrepreneurship Review) under the aegis of the organization named National Foundation for Entrepreneurship Development.
- Journal of Advanced Research in Power Electronics & Power Systems , India
- National Journal of Technology, India.

### Reviewer of the following National / International Journal / Book Publisher

1. Indian Journal of Pure & Applied Physics, NISCIR, CSIR, New Delhi
2. Defence Science Journal, India
3. Journal of Industrial Textiles, UK
4. Journal of Vibrations and Control, Sage Publications, USA.
5. Journal of Renewable Energy, Elsevier Publications, UK.
6. Journal of Semiconductor Technology & Science, France
7. International Journal of Electrical Engineering, Korea.
8. International Journal of Thermal Energy & Power Engineering
9. Scientific Research & Essays, Academic Journals, UK
10. Journal of Medical Imaging and Health Informatics
11. Journal of The Institution of Engineers (India)
12. Journal of Renewable and Sustainable Energy, USA
13. For the Book Wind Energy: An Introduction, CRC Press , USA.
14. The Scientific World Journal, Hindawi Publishing Corporation, USA
15. Journal of Power and Energy Engineering (JPPE), China.
16. Journal of Engineering Science and Technology, Malaysisa.
17. Journal of Semiconductor Technology and Science, Thomson Reuters.
18. Journal of The Institution of Engineers, India .
19. National Journal of Technology, India.
20. 2<sup>nd</sup> International Conference on Green Materials & Environmental Engg., 20-21 December , Thailand.

### Member Board of Studies

- Dept. of EEE, PSG College of Technology, Coimbatore
- School of Energy, PSG College of Technology, Coimbatore.

- Dept. of EEE, Kongu College of Engineering, Perundurai
- Dept. of EEE, Nanda College of Engineering, Perundurai
- Dept. of EEE, SNS College of Technology, Coimbatore.
- Dept. of EEE, Hindustan College of Engineering & Technology, Coimbatore.
- Dept. of EEE, Karpagam College of Engineering, Coimbatore.
- Dept. of Textile Technology, Kumaraguru College of Technology, Coimbatore.
- Dept. of EEE, Kumaraguru College of Technology, Coimbatore.
- Dept. of Mechatronics Engineering, Hindustan College of Engineering & Technology, Coimbatore.

### **Academic Council Nominee to BoS**

- Dept. of EEE, Bannari Amman Institute of Technology, Coimbatore.

### **External Expert - Staff Selection Board**

- Dept. of EEE, Angel College of Engineering & Technology, Tirupur.
- Dept. of EEE, Sri Ramakrishna Institute of Technology, Coimbatore.
- Dept. of Mechatronics Engineering, Kumaraguru College of Technology, Coimbatore.
- Dept. of EEE, Kumaraguru College of Technology, Coimbatore.

### **Project Review Committee Member**

- Department of Science & Technology
- DST – TSD Division
- Department of Scientific and Industrial Research
- DST, IDP , Technology Development & Transfer Division

### **Doctoral Committee Member**

- Anna University, Chennai,
- Karunya University, Coimbatore
- VIT, Vellore.
- Karpagam University, Coimbatore
- **Member of Exam Audit Committee**, PSG Polytechnic College, Coimbatore.
- **Member of Exam Audit Committee**, Kongu College of Engineering, Perundurai
- **Academic External Audit**, Dept. of EEE, Karunya University.

## **MEMBERSHIP OF PROFESSIONAL BODIES**

1. BSI Certified ISO 50001:2008 Energy Management Systems Lead Auditor
2. Executive Council Member, Institute of Smart Structures and Systems.
3. Secretary, Indian Association of Energy Manager – Coimbatore Chapter
4. Chartered Engineer (India), The Institution of Engineers
5. Life Member Indian Society for Technical Education (MISTE) (LM 36645)
6. Life Member Institute of Smart Structures and Systems (MISSS) (LM-190)
7. Life Member Biomedical Society of India (MBMSI) (L 804)
8. Life Member Telemedicine Society of India (MTSI) (LM 0022)
9. Life Member System Society of India (MSSI) (LM28517)
10. Life Member Solar Energy Society of India (MSESI) (LM/1317/2008)
11. Life Member Textile Association of India (MTAI) (SILM/22518)
12. Life Member Institution of Electronic & Telecommunication Engineers (M-208781)
13. Life Member Institution of Engineers(MIE) (M 141622-1)
14. Life Member Computer Society of India (MCSI) (M 01196142)
15. Life Member Indian Association of Energy Manager/Energy Professionals (MIAEMP)
16. Life Member Society of Energy Engineers And Managers (MSEEM)

## **DOCTORAL GUIDANCE / SUPERVISION**

<b>Number of Ph.D under progress</b>	<b>:</b>	<b>11</b>
<b>Number of Ph.D Completed</b>	<b>:</b>	<b>01</b>
<b>Number of UG Projects Guided</b>	<b>:</b>	<b>22</b>
<b>Number of PG Projects Guided</b>	<b>:</b>	<b>38</b>