

## M. ANAND

Assistant Professor (Sr.G.)  
Department of Electrical & Electronics Engineering  
PSG College of Technology, Coimbatore – 641 004  
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### EDUCATION

#### DOCTORATE\* :

(\*Pursuing) Special Electrical Machines and Controllers  
Anna University

#### POSTGRADUATE :

(May 2007) Power Electronics and Drives  
PSG College of Technology  
Anna University

#### UNDERGRADUATE :

(May 2005) Electrical & Electronics Engineering  
Sri ManakulaVinayagar Engineering College  
Pondicherry University

### EXPERIENCE

Sl. No	Name of the Post	Employer	Period of Employment		Teaching/ Industrial/ Research
			From	To	
1	Assistant Professor (Senior Grade)	Department of Electrical and Electronics Engineering, PSG College of Technology, Coimbatore, Tamilnadu, India.	1/1/2014	Till Date	Teaching
2	Assistant Professor	Department of Electrical and Electronics Engineering, PSG College of Technology, Coimbatore, Tamilnadu, India.	1/09/2010	31/12/2013	Teaching
3	Lecturer	Department of Electrical and Electronics Engineering, PSG College of Technology, Coimbatore, Tamilnadu, India.	01/06/2009	31/08/2010	Teaching
4	Engineer – R&D	Efficient Light Source Technologies Pvt Ltd. MEPZ, Tambaram,	15/06/2007	21/05/2009	Industrial/ Research

		Chennai – 600 045. (Venture Lighting India Ltd.)			
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## **COURSES HANDLED**

### **UNDERGRADUATE**

- Electric Drives & Control
- Control Systems
- Digital Signal Processing
- Electrical & Electronics Engineering
- Basics of Engineering

### **POSTGRADUATE**

- Power Semiconductor Devices
- Power Converters & Analysis
- Simulation of Power Electronic Systems
- Power Quality Management
- Electrical Energy Systems & Management
- Power Electronics Applications to Power Systems
- Linear Systems

### **RESEARCH AREAS**

- Special Electrical Machines and Controllers
- Renewable Energy Sources
- Power Quality

## **PUBLICATIONS**

### **INTERNATIONAL JOURNALS**

- Dinesh Kumar T. and Anand M., “Design of Switched Reluctance Motor for Three Wheeler Electric Vehicle”, ACEEE / Int. Journal on Recent Trends in Engineering and Technology, Vol. 8, No. 2, Jan 2013

### **INTERNATIONAL CONFERENCES**

- Dinesh Kumar T. and Anand M., “Design of Switched Reluctance Motor for Propulsion Application”, International Conference on Emerging Trends in Electrical, Electronics and Communication Technologies, December 2012

### **NATIONAL CONFERENCES**

- Yalavarthi Narendra and Anand M., “PV Power System Based Z-Source Inverter Supply to A Sensor less BLDC Motor”, National Conference on Recent Trends in Electrical and Electronics Engineering. (NCRTEEE’2011)
- Varma Mopidevi L. S. and Anand M., “Design, Development & Implementation of Grid Connected PV System”, National Conference on Recent Trends in Electrical and Electronics Engineering. (NCRTEEE’2011)
- Dinesh Kumar T. and Anand M., “Design and Control of Reluctance Motor for Electric Vehicle”, National Conference in Recent Trends in Power Systems, February 2013.
- Dinesh Kumar T., Sundaram M., Anand M., and Prince G., “Design and Fabrication of 3 HP Switched Reluctance Motor for Pump Application”, National Conference on Recent Trends in Electrical and Electronics Engineering. (NCRTEEE’13)
- Dinesh Kumar T., Sundaram M., and Anand M., “Flux Density Optimization to Improve Efficiency in SR motor for Pump Application”, National Conference in Green Energy.
- Gowthaman N. and Anand M., “Performance Analysis of Vienna Rectifier using Space Vector Pulse Width Modulation”, National Conference on Recent Trends in Electrical and Electronics Engineering. (NCRTEEE’13)
- Padmanaban K. and Anand M., “Design of BLDC Motor Controller Using PIC18F4431”, National Conference on Recent Trends in Electrical and Electronics Engineering. (NCRTEEE’13)
- Neethu M., and Anand M., “Simulation and Analysis of a Multi Input Power Converter for 10 kW Solar PV System”, National Conference on Recent Trends in Electrical and Electronics Engineering. (NCRTEEE’14)
- Lekhasri M. and Anand M., “Analysis and Mitigation of Harmonics in a thyristorised resistive Heating furnace”, National Conference on Design, Testing and Applications of Embedded & Power Electronic Systems- NCDTAEPS – 2015
- Mounya N. and Anand M., “Design and Development of 5 HP BLDC Motor for Submersible Application”, National Conference on Design, Testing, and Applications of Embedded & Power Electronic Systems - NCDTAEPS – 2016
- MohanaLatha P. and Anand M., “Design and Control of 40 KVA, 400 Hz, 3Ø Inverter”, National Conference on Design, Testing, and Applications of Embedded & Power Electronic Systems - NCDTAEPS – 2016

## SEMINARS / CONFERENCES ORGANISED

- Organized the “International Conference on Enhancements in Power Electronics and Controls: **ICEPEC – 2011**”, during 24 – 25 November 2011.
- Organized the “International Conference on Renewable Energy Technologies: **iCORET – 2011**”, during 24 – 25 November 2011.
- Organized the “National Conference on Recent Trends in Electrical & Electronics Engineering: **NCRTEEE’12**”, during May 2012.
- Organized Short – Term Training Programme in “**Cable Technology**”, through PSG – CNCE & EEE Department, PSG College of Technology, during 16 – 17 March 2012.

- Organized DRDO sponsored National Level Workshop on “**Design, Simulation and Analysis of Brushless Permanent Magnet Motors**”, through EEE Department, PSG College of Technology, during 9 – 10 November 2012.
- Organized MNRE, CSIR sponsored National Level Seminar on “**Renewable Energy Systems**”, through EEE Department, PSG College of Technology, during 7 – 8 December 2012.
- Organized National Level Workshop on “**Solar PV Design Considerations for Industry, Agriculture, and Domestic Applications with Economics**”, through EEE Department, PSG College of Technology, during 30 – 31 August 2013.
- Organized National Level Workshop on “**Research Perspectives in Power System Deregulation and Restructuring**”, through EEE Department, PSG College of Technology, during 31.01.2014 - 01.02.2014.
- Organized National Level Workshop on, “**Rudiments and Assortment of Variable Frequency Solid State AC Drives for Energy Conservation**”, through EEE Department, PSG College of Technology, during 14 – 15 February 2014.
- Organized National Level Workshop on “**Innovations In Cable Technology**”, through EEE Department, PSG College of Technology, on **06 May 2015**
- Organized National Level Workshop on “**FPGA based control of Permanent Magnet & Reluctance Motors for Energy Efficient Industrial Drives**”, through EEE Department, PSG College of Technology, during 6 – 8 August 2015

## SEMINARS / CONFERENCES ATTENDED

- Pre-Conference Tutorial on “**Wind Energy Systems – Modeling & Design**”, Organized by EEE Department, Coimbatore Institute of Technology, Coimbatore on 11.02.2011
- National Level Workshop on “**Nanomaterials & Device Modelling**”, Organized by BME Department, PSG College of Technology, Coimbatore on 04.03.2011
- National Level Workshop on “**Solar PV Installations**”, Organized by EEE Department, PSG College of Technology, Coimbatore during 17 – 19, March 2011
- Workshop on “**C2000 Microcontrollers**”, Organized by EEE Department, PSG College of Technology, Coimbatore during 1 – 2, July 2011
- Preconference Workshop on “**Research Perspective on Solar PV and Wind Energy Systems**”, Organized by EEE & Energy Department’s, PSG College of Technology, Coimbatore during 15 – 17, December 2011
- National Level Workshop on “**Mathematics for Electrical & Mechanical Sciences**”, Organized by EEE Department, PSG College of Technology, Coimbatore during 2 - 3, March 2012

- SDP on “**Automotive Ergonomics and Safety**”, Organized by Departments of Production and Automobile Engineering, PSG College of Technology, Coimbatore during 27 May – 09 June 2012
- National Level Workshop on “**Power Quality Issues and Improvement**”, Organized by EEE Department, PSG College of Technology, Coimbatore during 28 – 29, September 2012
- ISTE-SRM Short-Term Training Programme on “**Computational Intelligence in Smart Electric Power Grid**”, Organized by Faculty of Engineering & Technology SRM University, Chennai during 1 – 6, April 2013
- FDP on “**Art of Teaching: Pedagogical Tools and Techniques Series II**”, Organized by National Institute of Technology Tiruchirappalli during 3 – 7, March 2014
- National Conference on “**Energy and Environment**”, Organized by IIT Madras & CODISSIA during 16 – 17, September 2016

### **SPECIAL LECTURES DELIVERED**

- Special lecture delivered on “Design of single phase and three phase Transformers”, at Kathir College of Engineering, Coimbatore.
- Special lecture delivered in the Anna University, Chennai sponsored Faculty Development Training Programme on “Solid State Drives” during 16-22, December 2013, at PSG College of Technology, Coimbatore.

### **SPONSORED / CONSULTANCY ACTIVITIES**

- Co-PI in Design & Development of Smart Micro-grid using Renewable Energy Sources Sponsored by AICTE.
- Co-PI in Design & Development of Smart Autonomous In-service Inspection and Cleaning Ground Vehicle for Large Scale Solar PV Farms sponsored by Department of Science and Technology (DST), Solar Energy Research Initiative (SERI).

### **PROJECT GUIDANCE / SUPERVISION**

- **Number of PG Project Completed: 17**
- **Number of UG Project Completed: 21**