

Dr. R. LATHA
Associate Professor
Department of Electrical & Electronics Engineering
PSG College of Technology,
Coimbatore – 641 004
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EDUCATION

DOCTORATE

(November 2014) Power System Stability
Faculty of Electrical Engineering
Anna University.

POSTGRADUATE

(May 2005) Power Systems
PSG College of Technology
Anna University

UNDERGRADUATE

(April 2001) Electrical and Electronics Engineering
Coimbatore Institute of Technology
Bharathiar University

EXPERIENCE

June 2016 to till date

Associate Professor, Department of EEE, PSG College of Technology, Coimbatore

July 2015 to May 2016

Assistant Professor (Selection Grade), Department of Instrumentation & Control Engg., PSG College of Technology, Coimbatore

June 2010 to June 2015

Assistant Professor (Selection Grade), Department of Instrumentation & Control Engg., PSG College of Technology, Coimbatore

June 2007 to Aug 2007

Senior Lecturer, Department of EEE, Karpagam College of Engineering, Coimbatore

June 2005 to Dec 2006

Lecturer, Department of EEE, Karpagam College of Engineering, Coimbatore

Dec 1993 to July 2003

Instructor, Dept. of Computer Science, Nanjappa Institute of Technology, Coimbatore

COURSES HANDLED

UNDERGRADUATE

1. Electric Circuits
2. Electronic Devices & Circuits
3. Electrical Machines
4. Control Systems
5. Intelligent Controllers
6. Power System Protection
7. SCADA and HMI

POSTGRADUATE

1. Advanced Instrumentation Systems
2. Applied Softcomputing

RESEARCH AREAS

- Microgrids
- Renewable Energy Conversion systems
- Power Electronic Drives and Controllers

PUBLICATIONS

INTERNATIONAL JOURNALS

1. R.Latha and J.Kanakaraj, "Design of Hybrid Fault Tolerance Control for LPV System", Journal of Advances in Chemistry, Vol. 12, No. 21, Dec 2016, pp. 5292-5298.
2. R.Latha and J.Kanakaraj, "Design of Interleaved Three-Phase Single Switch Boost PFC Converter", Asian Journal of Research in Social Sciences and Humanities, Vol.6, No.10, Oct 2016, pp. 647-657.
3. S.Kanthalakshmi, M.Ragapriya and R.Latha, "Fault tolerant control design with acceptable performance degradation", ARPN Journal of Engineering and Applied Sciences, Vol. 10, No.2, Feb 2015, pp. 908-914.

4. R.Latha, S.Kanthalakshmi and J.Kanakaraj, "Design of Power System Stabilizer using Fuzzy based Sliding Mode Control Technique", Australian Journal of Basic and Applied Sciences, Vol. 8, No.18, Dec 2014, pp. 90-99.
5. R.Latha and J.Kanakaraj, "Adaptive neuro-fuzzy inference system-particle swarm optimization based stability maintenance of power system networks", American Journal of Applied Sciences, Vol. 10, No.8, Sep 2013, pp. 779-786.
6. R.Latha, S.Palanivel and J.Kanakaraj, "Frequency Control of Micrgrid Based on Compressed Air Energy Storage System", Distributed Generation and Alternative Energy Journal, Vol. 27, No. 4, Dec 2012, pp. 8-19.
7. Latha, R, Atchyutarao Golla, Kanakaraj, J, "Enhanced Control Technique for Stabilization of Power systems using Controllable Series Capacitor, International Review of Automatic Control (Theory and Applications) ,Vol. 5 N. 3, May 2012, pp. 338-341.
8. Latha. R and Kanakaraj. J, "Maintaining Stability in Distribution System with Microgrid using Neuro-Fuzzy," European Journal of Scientific Research , Vol.76, No.2, May 2012, pp. 316-326.

NATIONAL JOURNALS

1. Latha R and Navaneethan S, "Development of LVDT model using COMSOL Multiphysics", National Journal of Technology, Vol.12, No.4, Dec 2016, pp. 1-6.
2. S. Kanthalakshmi, R. Latha and V. Manikandan, "Hybrid Fault Tolerance Control Design for LPV System", National Journal of Technology, Vol. 10, No. 3, Sep. 2014.

INTERNATIONAL CONFERENCES

1. A.Sughasini and R.Latha, "Predictive Control for Wind Energy Conversion System with Lyapunov based Observer, International Conference on Control, Calibration & Testing, PSG College of Technology, Coimbatore, Feb 2015.
2. R.Latha and J. Kanakaraj, "Enhanced Particle Swarm Optimization Technique for Economic Load Dispatch Problems", IEEE International Conference on Computational Intelligence and Computational Intelligence and Computing Research, Kanyakumari, pp. 1330-1335, Dec 2011.
3. R.Latha and K.Thanushkodi, "Analysing Power Systems Using Symmetrical Component Transformation", International Conference on Resource Utilization and Intelligent Systems, Kongu Engineering College, Perundurai, Jan 2006.
4. R.Latha and K.Thanushkodi, "Space Vector Approach For Analysing Power Systems", International Conference on Human Machine Interfaces, J.N.N College of Engineering, Bangalore, pp 365-368 , Dec 2004.

NATIONAL CONFERENCES

1. S.Palanivel and R.Latha, "Frequency Stability Control Based on Compressed Air Energy Storage System Integrated with Distributed Generation", National Conference on Control, Instrumentation and Automation, PSG College of Technology, Coimbatore, Apr 2012.
2. S.Shiva Kesava Reddy and R.Latha, "Load Frequency Control of an Interconnected Power System using Neural Network Controller", National Conference on Control, Instrumentation and Automation, PSG College of Technology, Coimbatore, Apr 2012.
3. K. Susitha and R.Latha, "Design and Simulation of Interleaved Three-Phase Single Switch Boost PFC Converter for a Blower Application", National Conference on Systems, Control and Automation, PSG College of Technology, Coimbatore, Apr 2013.
4. A.Suresh and R.Latha, "Implementation of Optimized Air Flow Control in CAES System" TEQIP-II Sponsored National Conference on Control, Computing and Automation, PSG College of Technology, Coimbatore, Apr 2014.
5. P.Vishnukumaran and R.Latha, "Design and Implementation of Model Reference Adaptive Controller based Speed Control of Brushless DC Motor Drive", Control Systems and Automation, PSG College of Technology, Coimbatore, Apr 2016.
6. C.J.Jayaseelan and R.Latha, "State Feedback and Kalman Filter for Position Control of DC Servo Motor", Control Systems and Automation, PSG College of Technology, Coimbatore, Apr 2017.

SEMINARS / CONFERENCES ORGANISED

- Conducted two day workshop on "Modern Trends in Instrumentation and Control Systems Engineering" at PSG College of Technology during Feb 25 – 26, 2008.
- Organized International conference on "Modern Trends in Instrumentation and Control" at PSG College of Technology during Sep 2-3, 2011.
- Conducted two day workshop on "Implementation Aspects of Control algorithms for embedded system, PSG College of Technology, Coimbatore Oct 22-23, 2012.
- Conducted three day workshop on "Entrepreneurship Awareness Camp (EAC)" for B.E II year and III year students at PSG College of Technology during Feb 8-10, 2013.
- Conducted TEQIPI sponsored two day National conference on "Control, Computing and Automation (CCA 2014) during 24-25, January 2014.

- Conducted two day faculty development programme on “Soft Computing Techniques for Applications in Electrical Sciences” during 7-8 November 2014.
- Organized International conference on “Control, Calibration and Testing (ICCT’15)” at PSG College of Technology during Feb 13-14, 2015.
- Organized two day workshop on “Advanced Control System Design using MATLAB” during Feb 19-20,2016.
- TEQIP sponsored three day student workshop on “Industrial Automation” during Aug 27-29, 2016.

SEMINARS / CONFERENCES ATTENDED

- Course on “LabVIEW Basics” conducted by VI Centre, department of I&CE, PSG College of Technology during 21-25 June 2008.
- Two day workshop on “Modern Trends in Instrumentation and Control” organized by the department of I&CE, PSG College of Technology during 25-26, February 2008.
- AICTE sponsored staff development programme on “ Graphical System Design using Virtual Instrumentation” organised by Department of Instrumentation and Control Systems Engineering, PSG College of Technology, Coimbatore during 21st May to 3rd June, 2008.
- Two day workshop on “LABVIEW Machine Vision and Image Processing” during 8 -9 May 2009 in Department of Biomedical engg., PSG College of Technology in association with National Instruments, Bangalore.
- A workshop on “Content Creation (NPTEL) by Classle Ltd. , PSG College of Technology, Coimbatore during 19-20, February, 2010.
- A workshop on “Learning Process (Mission 10X), Wipro Ltd,Bangalore at PSG College of Technology during 1-5 March, 2010.
- National programme on “Technology Enhanced learning” by professors of IIT Madras at PSG College of Technology, during 5-9 May, 2010.
- One day workshop on “Memetic Algorithms” by CIIP on August 14, 2010.
- National Workshop on “Writing up for Thesis and Publications” conducted by department of English during 4-5 September, 2010.
- Workshop on “Learning Process (Mission 10X), Wipro Ltd, Bangalore at PSG College of Technology during 13-14, September 2010.
- AICTE sponsored Staff Development Programme on “Mathematical Research Challenges in Engineering Applications” from 27th November to 10th December 2010.
- Workshop organized by Women Development on December 11, 2010.
- Two day workshop on “Question paper setting” organized by Education Technology Centre on 7-8, January, 2011.

- Two day workshop on “C2000 Microcontrollers” organized by Education Technology Centre on July 1-2, 2011.
- One day workshop on “Working Style” organized by Women in Development, PSG College of Technology on Jan 20, 2012.
- One day workshop on “State Estimation and Multisensor Data Fusion for engineering Applications” on 10th March 2012
- One day workshop on “Emerging Trends in Embedded Systems-Colliding Worlds of Hardware and Software” conducted by Department of Electrical and Electronics Engineering, Coimbatore Institute of Technology, on August 10, 2012.
- Two day workshop on “PID Controller” organized by MIT, Chennai, on September 22-23, 2012.
- Two day programme on Technology Assessment and Commercialization” by PSG-STEP February 15-16,2013.
- Two week ISTE workshop on “Analog Electronics” to be conducted by IIT Kharagpur under National Mission on Education through ICT(MHRD, Govt. of India) from 4th June to 14th June 2013.
- Two day workshop on “PID Controller” organized by MIT, Chennai, on September 22-23, 2012.
- Two day workshop on “PID Controller” organized by MIT, Chennai, on September 22-23, 2012.
- Two day workshop on “Advanced Control Theory” organized by NIT, Trichy, on August 30-31, 2013.
- One day TEQIP II sponsored Management Capacity Enhancement Programme (MCEP) on Academic Leadership & Excellence on 24th October 2013 organized by PSGCT in association with IIM, Bangalore.
- One week TEQIP II sponsored faculty development programme on “Smart Grids” from 21 to 29 October 2013 organized by the Department of EEE, CIT.
- Two day TEQIP II sponsored International Summit on Engineering Education (ISEE’14) during January, 27-28, 2014.
- Four day TEQIP II sponsored Laboratory Quality Management System & Internal Audit as per ISO 17025:2005 during April 15-18, 2014.
- Two week ISTE workshop on “Control Systems” conducted by IIT Kharagpur under National Mission on Education through ICT (MHRD, Govt. of India) during December 2-12, 2014.
- Two days workshop on “Energy Auditing and Conservation Techniques” conducted by the Department of EEE, PSGCT during July 3-4, 2015.
- Workshop on “FPGA based control of Permanent Magnet & Reluctance motors for Energy Efficient Industrial Drives” during Aug 6-8, 2015.

- One day workshop on One day workshop titled “ How to publish a Technical Paper with IEEE” organized by IIT Madras, Chennai during Aug 20, 2015.
- Workshop on “Control Engineering Analysis and Design using MATLAB/SIMULINK” organized by Department of Avionics, Indian Institute of Space Science and Technology, Trivandrum during Dec 15-18, 2015.
- Short term training programme on "PLC,HMI,SCADA and AC drives” organized by the department of .Electrical Engineering, Delhi Technological University during June 13-17, 2016.
- One day workshop on “Effective use of Moodle – A Learning Management System” organized by PSG Centre for Academic and Research Excellence, Coimbatore
- Short term course on “Control Systems Engineering Design” conducted by the Department of Avionics, Indian Institute of Space Science and Technology, Trivandrum, June 6-9, 2017.

MEMBERSHIP OF PROFESSIONAL BODIES

Life Member of Indian Society For Technical Education

PROJECT GUIDANCE / SUPERVISION

Number of PG Projects Guided: 12

Number of UG Projects Guided: 10