

KATHIRESH MAYILSAMY

Assistant Professor

Department of Electrical & Electronics Engineering

PSG College of Technology, Coimbatore – 641 004

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EDUCATION

DOCTORATE

(on going)

Automotive Embedded Systems
Anna University, Chennai

POSTGRADUATE

(May, 2012)

Embedded & Real-Time Systems
PSG College of Technology, Coimbatore
Anna University, Chennai

UNDERGRADUATE

(May, 2010)

Electronics and Communication Engineering
Sri Ramakrishna Engineering College, Coimbatore
Anna University, Chennai

EXPERIENCE

From 01.06.2012 to till date

Assistant Professor
PSG College of Technology, Coimbatore

COURSES HANDLED

UNDERGRADUATE

- Embedded System Design
- Microprocessors and Microcontrollers

POSTGRADUATE

- Embedded System Design
- Real-Time Concepts for Embedded Systems
- Real-Time Operating Systems
- Advanced Embedded Controllers
- Industrial Networking and Standards
- Virtual Instrumentation Systems
- Advanced Virtual Instrumentation

RESEARCH AREAS

- Automotive Networking
- Multi-core Programming
- RTOS based Embedded Software Development

PUBLICATIONS

INTERNATIONAL JOURNALS

1. M. Priya , M. Kathiresh, “Wireless Patient Health Monitoring System using LabVIEW” International Journal of Emerging Technology in Computer Science & Electronics, ISSN: 0976-1353, Volume 22 Issue 2, MAY 2016.

INTERNATIONAL CONFERENCES

1. Kathiresh M, Neelaveni R, Abinesh S, “Analysis of Multi-core Architecture for Automotive Applications”, International Conference on Embedded Systems, Amrita Vishwa Vidyapeetham, Coimbatore and published in IEEE Explorer. ISBN 978-1-4799-5026-3.
2. Kathiresh M, Varun C,” Automotive Ethernet in On-Board Diagnosis”, International Conference on Embedded Systems, Amrita Vishwa Vidyapeetham, Coimbatore and published in IEEE Explorer. ISBN 978-1-4799-5026-9.
3. Kathiresh M, ShafnaAshmi, “Voice Enabled File Search and Retrieval System using Optimized Text-to-Speech Synthesizer”, IOAJ International Conference on Electrical Engineering and Computer Science, Coimbatore, 2013.
4. Kathiresh M, Kranti K. Kapdi, “Use of Controller Area Network Bus and Wireless Communication Technology to improve Driving Safety”, IOAJ International Conference on Electrical and Electronics Engineering, ISBN: 978-93-81693-55-1, 2012.

NATIONAL CONFERENCES: 18

1. Kathiresh M, “Controllter Area Network Bus Application in Automotive Network Control”, National Conference on Recent Trends in Electrical and Electronics Engineering, PSG College of Technology, Coimbatore, 2012.
2. Kathiresh M, “Controller Area Network based On-Board Diagnostic System”, National Conference on Advances in VLSI and Embedded Systems, Sri Ramakrishna College of Engineering, Coimbatore, 2012.

WORKSHOPS / FACULTY DEVELOPMENT PROGRAMMES ORGANISED

S. No.	Title of the Programme	Period
1.	TEQIP II Sponsored One Week FDP on “Real-Time Embedded Systems and Internet of Things”	22.06.2016 - 28.06.2016
2.	Two Day Hands-on Workshop on Virtual Instrumentation using LabVIEW and VEEPro	20.02.2015 and 21.02.2015
3.	Two Day Workshop on Low Power Microcontrollers	05.03.2016 and 06.03.2016
4.	One Day Workshop on WEB BENCH Design Tool	17.06.2015
5.	Automotive Embedded Systems	9.9.2012

SEMINARS / CONFERENCES / WORKSHOPS / FDPs ATTENDED

S. No.	Title of the Programme	Period
1.	Pre-Conference Tutorial on Vx-Works and Simics conducted by Wind River and Amrita Vishwa Vidyapeetham, Coimbatore	3.07.2014
2.	TEQIP II Sponsored One Week FDP on Research perspectives of Signal Processing” Department of ECE, PSG College of Technology, Coimbatore	05.08.2016 – 11.08.2016
3.	One Day Workshop on Effective Use of Moodle Software, conducted by PSG CARE at PSG iTech, Coimbatore	10.09.2015
4.	TEQIP II Sponsored One Week FDP on “Real-Time Embedded Systems and Internet of Things” Department of EEE, PSG College of Technology, Coimbatore	22.06.2016 - 28.06.2016
5.	TEQIP II Sponsored Three Day FDP on Internet of Things, Department of ECE, PSG College of Technology, Coimbatore	02.06.2016 - 04.06.2016
6.	TEQIP II Sponsored Workshop on High Performance Networking and Data Security, conducted by Department of Information Technology, in collaboration with Juniper Networks, at PSG College of Technology, Coimbatore	30.01.2014 – 31.01.2014
7.	TEQIP II Sponsored One Day Workshop on Electronic Engine Management, Department of Automobile Engineering, PSG College of Technology, Coimbatore	28.06.2014
8.	TEQIP II Sponsored One Day Workshop on Well-Being in Workplace, PSG College of Technology, Coimbatore	14.03.2014
9.	TEQIP II Sponsored One Week FDP on Wireless Sensor Networks, Department of ECE, PSG College of Technology, Coimbatore	15.11.2013 - 21.11.2013
10.	TEQIP II Sponsored One Week FDP on Analysis of Electrical and Electronics Systems using MATLAB and PSpice , Department of EEE, PSG College of Technology, Coimbatore	20.06.2013 – 26.06.2013

SPECIAL LECTURES DELIVERED

S. No.	Topic	Title of the Programme	Ograniser
1.	Embedded Systems	One day Pre ConferenceWorkshop on RecentTechnological Advancement in Automotive Industry, National level conference “Trends in Automotive Parts Systems and Applications” (TAPSA 2015) 19.03.2015	SAE INDIA and Sri Krishna College of Engineering and Technology, Coimbatore
2.	Real-Time Operating System based Embedded Software Development	Hands-on Workshop on RTOS based Application Development 15.07.2016	Department of Electronics and Instrumentation, Dr. Mahalingam College of Engineering and Technology
3.	Recent Trends in Embedded System Design	Guest Lecture on Embedded Systems 29.01.2016	Department of Electronics and Instrumentation, Kumaraguru College of Technology
4.	Embedded Software Development	Invited Talk on Embedded Systems 17.02.2016	Department of Electronics and Instrumentation, Dr. Mahalingam College of Engineering and Technology
5.	The Concept of Make Utility	TEQIP II Sponsored One Week FDP on “Real-Time Embedded Systems and Internet of Things” 23.06.2016	Department of EEE, PSG College of Technology
6.	Real-Time Operating Systems – Micrium Real-Time Kernel	TEQIP II Sponsored One Week FDP on “Real-Time Embedded Systems and Internet of Things” 24.06.2016	Department of EEE, PSG College of Technology
7.	Embedded Software Development Process	TEQIP II Sponsored One Week FDP on “Real-Time Embedded Systems and Internet of Things” 22.06.2016	Department of EEE, PSG College of Technology
8.	Embedded Systems in Automobiles	National level workshop on “Embedded Systems in Automobiles” 29.08.2015	SAE INDIA and Sri Krishna College of Engineering and Technology, Coimbatore
9.	Embedded System Design using ARM Controller	Guest Lecture 12.07.2016	Department of ECE, KPR Institute of Engineering and Technology
10.	Embedded Systems in Automobiles	National level student conventionAUTOZINIOS 25.02.2016	SAE INDIA SKCET Collegiate Club Sri Krishna College of Engineering and Technology, Coimbatore

11.	Advanced LabVIEW Programming Techniques	Two Day Hands-on Workshop on Virtual Instrumentation using LabVIEW and VEEPro 21.02.2015	Department of EEE, PSG College of Technology
12.	Automotive Embedded Systems	Invited Talk 12.03.2014	Department of ECE, Sri Ramakrishna Engineering College
13.	Controller Area Network	One Day Workshop on Automotive Embedded Systems 9.9.2012	Department of EEE, PSG College of Technology

PROJECT GUIDANCE / SUPERVISION

- ❖ Number of UG Projects Guided : **03**
- ❖ Number of PG Projects Guided : **15**

OTHERS

- ❖ Board of Studies Member in Sri Ramakrishna Engineering College, Coimbatore