

## **Dr. R. NEELAVENI**

**Associate Professor**

**Department of Electrical & Electronics**

**Engineering**

**PSG College of Technology, Coimbatore – 641**

**004**

***e-mail: rnv@eee.psgtech.ac.in***



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### **EDUCATION**

#### **DOCTORATE**

(August/2002)

Biomedical Instrumentation  
Bharathiar University

#### **POSTGRADUATE**

(February/1991)

Applied Electronics  
PSG College of Technology  
Bharathiar University

#### **UNDERGRADUATE**

(January/1986)

Electronics and Communication Engineering  
PSG College of Technology  
Madras University

### **EXPERIENCE**

<b>DESIGNATION</b>	<b>ORGANISATION</b>	<b>PERIOD OF EMPLOYMENT</b>			
		<b>FROM</b>	<b>TO</b>	<b>Years</b>	<b>Months</b>
Associate Professor	PSG College of Technology	Jan 2006	Till date	10	9
Assistant Professor	PSG College of Technology	Oct 2004	Dec 2005	1	2
Senior Lecturer	PSG College of Technology	July 1997	Oct 2004	7	3

Lecturer (OG) Regular	PSG College of Technology	July 1991	July 1997	6	-
Lecturer (OG) Temporary	PSG College of Technology	July 1990	July 1991	1	-
Associate Lecturer	Kumaraguru College of Technology	July 1989	May 1990	-	10
Assistant Lecturer	Kumaraguru College of Technology	July 1987	June 1989	2	-
Associate Lecturer	Tamilnadu College of Engineering	July 1986	Jan 1987	-	6

## COURSES HANDLED

### UNDERGRADUATE

Course 1: Electron Devices

Course 2: Electronic Circuits

Course 3: Principles of Communication

Course 4: Unix and C

Course 5: Linear ICs and Applications

Course 6: Microprocessors and Microcontrollers

Course 7: Microcontrollers and PLC

Course 8: Digital System Design

Course 9: Biomedical Instrumentation

Course 10: Computer Graphics

Course 11: Electrical & Electronics engineering

Course 12: Electronics and Microprocessor Technology

Course 13: Computer Architecture

### POSTGRADUATE

Course 1: Digital System Design and Testing

Course 2: VLSI Design

Course 3: Analog VLSI Design

Course 4: Embedded Systems

## RESEARCH AREAS

- Biomedical Instrumentation
- Bio signal processing
- Image Processing

- VLSI Design
- Automotive Embedded Systems

## **PUBLICATIONS**

### **INTERNATIONAL JOURNALS**

1. Subramani T, Saranya M and Neelaveni R(2014).,"Insight into Autonomous Navigation of Micro Aerial Vehicle (MAV)", Austin Journal of Robotics & Automation(1):3.
2. Kannaian, T., Neelaveni, R. and Thilagavathi, G.(2012) "Design and Development of Embroidered Textile Electrodes for Continuous Measurement of Electrocardiogram Signals", Journal of Industrial Textiles Published online before print, DOI: 10.1177/1528083712438069, February 22, 2012.
3. Kannaian, T., Neelaveni, R. and Thilagavathi, G(2011) "Development and Characterization of Elastomeric Tape Sensor Fabrics for Elbow Angle Measurement" pp: 436-442, IJFTR Vol.36, No. 4, December 2011
4. Gopu G, Neelaveni R.(2011) "Investigation of Digestive System Disorders with Cutaneous Electrogastrogram (EGG) Signal- An Engineering Approach" ,European Journal of Scientific Research, volume 53 ,Issue 2,pp.210-221.
5. Chitra R, Neelaveni R, (2011) "A realistic approach for reduction of energy losses in low voltage distribution network", International Journal of Electrical Power and Energy Systems, Elsevier Publications, Volume 33, issue3, March 2011 pages 377-384
6. D.Sasikala and R.Neelaveni (2011), 'An Analysis of Registration of Brain Images using Fast Walsh Hadamard Transform', International Journal of Computer Applications, Vol. 13, No.1, Jan 2011, pp 23-29.
7. D.Sasikala and R.Neelaveni (2011), 'Correlation Coefficient Measure of Mono and Multimodal Brain Image Registration using Fast Walsh Hadamard Transform', IACSIT International Journal of Engineering and Technology, Vol. 3, No. 2, April 2011, pp 154-160.
8. D.Sasikala and R.Neelaveni (2011), 'Mutual Information Measure of Brain Image Registration Using Fast Walsh Hadamard Transform', RIPS - International Journal of Applied Engineering Research, Vol. 6, No.7, May 2011, pp 1395-1410D.
9. Sasikala and R.Neelaveni (2010), 'Registration of Brain Images Using Fast Walsh Hadamard Transform', International Journal of Computer Science and Information Security, Vol. 8, No. 2, May 2010, pp 96-105.

10. Gopu G, Neelaveni R.(2010), "An Enhanced technique for recording and Analysis of Electrogastrogram using Active Electrodes", Sri Lanka Journal of Bio-Medical Informatics Vol.1 No.1, pp.20-26.
11. Gopu G, Neelaveni R.(2010), "Investigation of digestive system disorders with electrogastrogram using wavelet transform denoising" International Journal of Machine Intelligence, Vol. 2,No.1,pp.16-28.
12. Gopu G, Neelaveni R(2010)., "Noninvasive Technique for Acquiring and Analysis of Electrogastrogram" , International Journal of Computer applications( IJCA Journal) Special Issue on CASCTvol.2,pp.73-76.
13. D.Sasikala and R.Neelaveni (2010), 'Monomodal Brain Image Registration Using Fast Walsh Hadamard Transform', CiiT International Journal of Fuzzy Systems, Vol. 2, No. 8, August 2010, pp 37-49.
14. D.Sasikala and R.Neelaveni (2010), 'Registration of Brain Images Using Modified Adaptive Polar Transform', International Journal of Engineering Science and Technology, Vol. 2, No. 9, Sept 2010, pp 4730-4743.
15. D.Sasikala and R.Neelaveni (2010), 'Registration of Multimodal Brain Images Using Modified Adaptive Polar Transform', IJENS- International Journal of Video and Image Processing and Network Security, Vol. 10, No. 5, Oct 2010, pp 1-10.
16. D.Sasikala and R.Neelaveni (2010), 'Analysis of the Performance of Registration of Mono and Multimodal Brain Images using Fast Walsh Hadamard Transform', International Journal of Computer and Network Security, Vol. 2, No. 10, Nov 2010, pp 105-111.
17. D.Sasikala and R.Neelaveni (2010), 'Correlation Coefficient measure of Multimodal Brain Image Registration Using Fast Walsh Hadamard Transform', Journal of Theoretical and Applied Information Technology, Vol. 22, No. 2, Dec 2010, pp 93-101.
18. D.Sasikala and R.Neelaveni (2010), 'Correlation Coefficient for Registration of Multimodal Brain Images using Modified Adaptive Polar Transform', International Journal of Computational Intelligence Research, Vol. 6, No.4, Dec 2010, pp 771-779.
19. Gopu G, Neelaveni R.(2009), "A Novel Approach for Detection of Digestive System Disorders", ARPN Journal of Engineering and Applied Sciences, Vol.4, No.2, pp.1-7.
20. Gopu G, Neelaveni R.(2009), "Analysis of Electrogastrogram for the Investigation of Digestive System Disorders using wavelet transforms", International Journal of Engineering and Technology, Vol.2, No.4,pp43-49.
21. Sharmila D. and Neelaveni R. (2009), 'Performance Analysis of SAFER+ and Triple DES security algorithms for Bluetooth Security Systems', International Journal of Computer Science and Network Security (IJCSNS), Korea, Vol. 9, No. 2, pp. 395-404.

22. Sharmila D. and Neelaveni R. (2009), 'Performance Evaluation of VHDL Implementation of Proposed SAFER+ Security Algorithm and Pipelined AES Security Algorithm for Bluetooth Security Systems', ICGST International Journal on Computer Networks and Internet Research (CNIR), Egypt, Vol. 9, Issue I, pp. 11-18.
23. Sharmila D. and Neelaveni R. (2009), 'Comparative analysis of RSA, DSA and Neider Reiter encryption Algorithm for Bluetooth WPAN', International Journal of Scientific and Computing (IJSC), India, Vol. 3, Issue I, pp. 113-116.
24. Sharmila D. and Neelaveni R. (2009), 'A Proposed SAFER plus security algorithm using Fast Walsh Hadamard transform for Bluetooth technology', International Journal of Wireless and Mobile Networks (IJWMN), India, Vol. 1, No. 2, pp. 80-88.
25. Sharmila D. and Neelaveni R. (2009), 'A Proposed SAFER Plus Security algorithm using Fast Psuedo Hadamard Transform (FPHT) with Maximum Distance Separable code for Bluetooth Technology', International Journal of Computer and Network Security (IJCNS), Malaysia, Vol. 1, No. 2, pp. 56-59.
26. Gopu G, Neelaveni R.(2008) "Acquisition and Analysis of Electrogastrogram for Human Stomach Disorders- A Statistical Approach", International Journal of Bioinformatics and Medical Engineering, Vol. 8, No. 1, pp. 31-37..

## **NATIONAL JOURNALS**

1. Muthu Kumar, N., Kannaian, T., Neelaveni, R. and Thilagavathi, G(2010) "Development of Electrically Conductive Fabrics using Conductive Polyaniline Polymer" - National Journal of Technology, Vol.6 No.4, December 2010.
2. Sharmila D. and Neelaveni R. (2009), 'Simulation of Crypto Algorithms for an Enhanced Crypto Processor for the Security Systems Using VHDL', Indian Journal of Engineering, Science and Technology (IJEST), India, Vol. 3, No. 1, pp.59-70.
3. D.Sasikala and R.Neelaveni (2010), 'Correlation Coefficient for Registration of Monomodal Brain Images using Modified Adaptive Polar Transform', MES Journal of Technology and Management, Vol:1, No:2, Nov 2010, pp 52-58.
4. D.Sasikala and R.Neelaveni (2010), 'Performance analysis of brain image registration technique using fast walsh hadamard transform and modified adaptive polar transform', Journal of Scientific & Industrial Research, Vol. 70, No:2, February 2011, pp. 123-128.

5. Sharmila D. and Neelaveni R. (2009), 'Performance Analysis of various Security algorithms against different security attacks in Bluetooth Technology', National Journal of Technology, India.

## **INTERNATIONAL CONFERENCES**

1. Abinesh S., Kathires M., Neelaveni R., (2014) "Analysis of Multi-core Architecture for Automotive Applications" paper presented in International Conference on Embedded Systems held at Amrita Vishwa Vidhyapeetham, Coimbatore and published in IEEE Explorer. ISBN 978-1-4799-5026-3.
2. Kannaian, T., Neelaveni, R. and Thilagavathi, G.(2010) "Design and Development of Elastomeric Tape Sensor Fabrics for Elbow Angle Measurement" paper presented in The Textile Institute Centenary Conference, Manchester, UK, November 3-4, 2010.
3. Kannaian, T., Neelaveni, R. and Thilagavathi, G(2009). "Development of Electro Active Fabrics by Coating Polyaniline and its Composite with Silver Nanoparticles for Electromagnetic Shielding and Heating Applications" paper presented in the International Conference on Innovations in Textiles 2009: Smart, Nano and Technical Textiles for Medical, Industrial and Clothing Applications organized by The Institute of Nanotechnology, Stirling, London, UK, March 18-19 2009.
4. Kannaian, T., Neelaveni, R. and Thilagavathi, G.(2008) "Synthesis of conducting polyaniline and its applications on Textile substrates", Paper presented in the international conference on Advances in Textiles, Machinery, Nonwoven and Technical Textiles-ATNT-2008, at Avinashilingam University, Coimbatore organized by Texas Tech University, USA and Avinashilingam University, Coimbatore, July 14-16 2008.
5. Kannaian, T., Neelaveni, R. and Thilagavathi, G(2012). "Design And Development of Smart Garment for Continuous Measurement of Electrocardiogram (ECG) Signals" paper presented in the International Conference on Industrial textiles – Products, Application and Prospects – INDUTECH 2012, PSG College of Technology, Coimbatore, August 3-4, 2012.
6. Sharmila D. and Neelaveni R. (2005), 'VHDL Implementation of SAFER+ Algorithm for Bluetooth Security Systems', International Conference on ECTICON-2005 held at Asia Pattaya Hotel, Kaestrick University, Thailand, Vol. 2, pp. 68-73 (Best Presentation Award).
7. Sharmila D. and Neelaveni R. (2005), 'Simulation of SAFER+ for Bluetooth Technology', International Conference on EAST-2005 held at Nooral Islam College of Engineering, Nagercoil, India pp. 55-60.

8. Sharmila D. and Neelaveni R. (2008), 'VHDL synthesis of private and public key cryptoprocessor for security systems', International Conference ICSCI 2008, Pentagram Pvt.Ltd, Hyderabad, India, pp.67-71.
9. Sharmila D. and Neelaveni R. (2009), 'Development of Novel Architecture of Security Model for the protection of Sensitive and Confidential data for ATM Banking System', International Conference ICSCI 2009, Pentagram Pvt. Ltd, Hyderabad, India, pp. 311-316.
10. Sharmila D. and Neelaveni R. (2009), 'An Efficient key management scheme using ID-based Encryption and Biometrics in Smart cards', International Conference ICSCI 2009, Pentagram Pvt. Ltd, Hyderabad, India, pp. 116-121.
11. Sharmila D. and Neelaveni R. (2009), 'Energy Efficient Bluetooth networks in home appliances' International Conference ICSCI 2009, Pentagram Pvt. Ltd, and Hyderabad, India, pp. 93-99.
12. Sharmila D. and Neelaveni. (2009), 'Bluetooth man in the middle attack based on secure simple pairing out of band association model', International Conference on Control, Automation, Communication and Energy Conservation (INCACEC – 2009) Kongu Engineering College, Perundurai, India (IEEE explorer), pp. 1-6.
13. D.Sasikala and R.Neelaveni (2007), 'Review of Methodologies for Segmentation of Textured Images', Proceedings of the International Conference on Mathematics and Computer Science ICMCS 2007, March 1-3 2007, Loyola College, Chennai, India, pp 468-473.
14. D.Sasikala and R.Neelaveni (2010), 'Medical Image Registration using Fast Walsh Hadamard Transform', Proceedings of the International conference on intelligent information systems and management IISM'2010, June 10-12 2010, RVS College of Engineering and Technology, Coimbatore, India, pp 1-6.
15. D.Sasikala and R.Neelaveni (2010), 'Multimodal Registration of Brain Images using Fast Walsh Hadamard Transform', Proceedings of the International Conference on Embedded Systems ICES2010, July 14-16 2010, Coimbatore Institute of Technology, Coimbatore, India, pp 4.
16. D.Sasikala and R.Neelaveni (2010), 'An Efficient Method of Image Registration for Mono and Multimodal Brain Images', Proceedings of the International Conference on System Dynamics and Control ICSDC2010, August 19-22 2010, Manipal Institute of Technology, Manipal, India, pp 102.
17. D.Sasikala and R.Neelaveni (2010), 'Image Registration using Modified Adaptive Polar Transform', International Conference & Exhibition on Biometric Technology ICEBT-

2010, September 3-4 2010, PSG College of Technology, Coimbatore, India, [Volume 2](#), 2010, Pages 321-329. (Available in Elsevier [Procedia Computer Science](#))

18. D.Sasikala and R.Neelaveni (2010), 'Correlation Coefficient for Registration of Monomodal Brain Images using Fast Walsh Hadamard Transform', International Conference on Communication, Control and Computing Technologies -ICCCCT 2010, October 7-9 2010, Syed Ammal Engineering College, Ramanathapuram, India, pp 496 – 501. (Available in IEEE Explorer)
19. D.Sasikala and R.Neelaveni (2010), 'Correlation Coefficient for Registration of Monomodal Brain Images using Modified Adaptive Polar Transform', International Conference on Computational Engineering Practices and Techniques iConcept2010, November 25<sup>th</sup> 2010, M.E.S. College of Engineering, Kuttippuram, Kerala, India, pp 52-58. (Available in MES Journal of Technology, Vol. 01, No. 02, November 2010, pp 52-58.)
20. D.Sasikala and R.Neelaveni (2010), 'Correlation Coefficient for Registration of Multimodal Brain Images using Modified Adaptive Polar Transform', International Conference on Computational Intelligence- ICCI2010, December 9-11 2010, GR Govindarajulu School of Applied Computer Technology, Coimbatore, India, 771-779. (Available in *International Journal of Computational Intelligence Research*, Vol. 6, No.4, Dec 2010, pp 771-779.)
21. D.Sasikala and R.Neelaveni (2010), 'Performance Analysis of Registration of Mono and Multimodal Brain Images using Fast Walsh Hadamard Transform', Proceedings of the International Conference on Emerging Trends in Mathematics and Computer Applications ICETMCA 2010, December 16-18 2010, MEPCO SCHLENK Engineering College, Sivakasi, India, pp 296-300.
22. D.Sasikala and R.Neelaveni (2010), 'Mutual Information for Registration of Monomodal Brain Images Using Modified Adaptive Polar Transform', Proceedings of the International Joint Conference in Advances in Engineering and Technology AET 2010, Advances in Computer Science, December 21-22 2010, Trivandrum, Kerala, India, pp 173-177.
23. D.Sasikala and R.Neelaveni (2010), 'Monomodal Brain Image Registration Using Modified Adaptive Polar Transform', Proceedings of the International Conference on Computer Applications II 2010 ICCA'10, December 24-27 2010, Techno Forum Research and Development Centre TFRDC, Pondicherry, India, pp 237-246.
24. Gopu G, Neelaveni R(2008)., "Acquisition and Analysis of Electrogastrogram for Digestive System Disorders Using a Novel Approach", in Proc. 5th International



Conference on Electrical & Computer Engineering (ICECE 2008), 20-22 December 2008, Dhaka. BANGLADESH.

25. Gopu G, Neelaveni R(2008), “Analysis of EGG Signals for Digestive System Disorders using Neural Networks”. In Proc. 13th International Conference on Biomedical Engineering (ICBME2008), 3 - 6 December 2008, the Suntec Singapore International Convention and Exhibition Centre, SINGAPORE.
26. Gopu G, Neelaveni R.(2008), “Investigation of Digestive System Disorders using Electrogastragram”. In Proc. IEEE International conference on Computer and Communication Engineering (ICCCE '08), Vol.2, pp.201-205, 13-15 May 2008, Kuala Lumpur, MALAYSIA.
27. Gopu G, Neelaveni R.(2008), “Acquisition and Analysis of Electrogastragram for Human Stomach Disorders”, in Proc. International conference on Recent Trends in Computational Science (ICRTCS'08), Vol.1,pp.162-169, 11-13 June 2008, Ernakulam, Kerala, INDIA
28. Gopu G, Neelaveni R.(2008), “Analysis of Electrogastragram for the Investigation of Digestive System Disorders using wavelet Transform”, in Proc. International Conference on Aerospace Electronics, Communications and Instrumentation – ASECI-10, V.R.Siddhartha Engineering College, January 6-7, 2010, Vijayawada.

## **NATIONAL CONFERENCES**

1. Kannaian, T., Neelaveni, R. and Thilagavathi, G. “Design and Development of Textile Pressure Sensor for Garment Fit Analysis” paper presented in The National Conference for Post Graduate and Research Scholars on Innovations in Textile Engineering, PSG College of Technology, May 5, 2012.
2. Sharmila D. and Neelaveni R. (2005), ‘Security and Fast Encryption Routine Algorithm for Wireless Security System using VHDL’, National Conference on Biosignal, Communication and Networking held at Sri Sivasubramanya Nadar College of Engineering, Chennai, pp. 27-31.
3. Sharmila D. and Neelaveni R. (2005), ‘VHDL Implementation of Security architecture for Bluetooth Technology’, National Conference on RAIN-05, held at Nooral Islam College of Engineering, Nagercoil, pp. 47-52.
4. Sharmila D. and Neelaveni R. (2006), ‘Simulation and Synthesis of Novel architecture of SAFER+ Encryption algorithm using VHDL for Bluetooth Security systems’, National Conference on Signals, Security and Systems, held at Bannari Amman Institute of Technology, Sathyamangalam, pp. 479-486 (Best Paper Award).

5. Sharmila D. and Neelaveni R. (2005), 'Network Security architecture implemented by VHDL', National conference on VESCOM -2005, April 2005 held at Kongu Engineering College, Perundurai, pp. 162-167.
6. Sharmila D. and Neelaveni R. (2006), 'Pipelined AES Security Algorithm for Bluetooth Technology using VHDL', National Conference on Communication Technologies – NCCT '06 to be held at Mepco Schlenk Engineering College, Sivakasi, pp. 35-41.
7. Sharmila D. and Neelaveni R. (2009), 'A Novel Bluetooth Man-In-The-Middle Attack based on Secure Simple Pairing', National Conference NCICC '09, organized by SNS College of Technology, Coimbatore during March 2009, pp. 122-128.
8. Sharmila D. and Neelaveni R. (2009), 'A secure mechanism against MITM attack', National Conference RTICT'09, organized by Bannari Amman Institute of Technology, Sathyamangalam, pp. 63-69 (Best Paper award).
9. Sharmila D. and Neelaveni R. (2009), 'Comparative analysis of RSA, DSA and ECC encryption Algorithm for Bluetooth WPANs', National Conference on Soft Computing, organized by Institute of Road and Transport Technology, Erode, pp. 89-95.
10. Sharmila D. and Neelaveni R. (2009), 'Security against Man-In-The-Middle attack based on Secure Simple Pairing', National Conference NCSCN 2009, organized by Sri Venkateswara College of Engineering, Chennai, pp. 153-158.
11. Gopu G, Neelaveni R., "Segmentation of Endoscopy Image for the Investigation of Digestive System Disorders" in Proc. 3<sup>rd</sup> National Conference on Recent Trends in Instrumentation Applications (Retina '09)" pp.142-147, 19<sup>th</sup> – 20<sup>th</sup> March 2009, Department of EIE, National Engineering College, Kovilpatti- 628 503, Tamilnadu, INDIA
12. Gopu G, Neelaveni R "BPN and RBF Based Neural Network Classifiers for Investigation of Digestive system disorders" in Proc. 3<sup>rd</sup> National Conference on Recent Trends in Instrumentation Applications (Retina '09)" pp.127-135, 19<sup>th</sup> – 20<sup>th</sup> March 2009, Department of EIE, National Engineering College, Kovilpatti -628 503, Tamilnadu, INDIA
13. Gopu G, Neelaveni R "A Simplified Novel Approach to Detect the Digestive System Disorders" in Proc. National Conference on Software Engineering and Applications (Codeclave 8.1), 30<sup>th</sup> – 31<sup>st</sup> Jan 2008, Department of Computer Science and Engineering, Government College of Engineering, Salem, Tamilnadu.

## SEMINARS / CONFERENCES ORGANISED

1. Editor of the Proceedings of 25<sup>th</sup> National System Conference held during December 2001 AICTE-ISTE STTP on New Trends in Biomedical Engineering during 9<sup>th</sup> to 22<sup>nd</sup> December, 2003
2. One Day Workshop on Personality Development and Career Guidance on 31<sup>st</sup> January 2004
3. One day Workshop on Web Bench Design Tool on 17.06.2015
4. Two Day Workshop on Mixed Signal Controllers during 5<sup>th</sup> and 6<sup>th</sup>, March 2016
5. TECQIP-II Sponsored One Week FDP on "IoT and Real-Time Embedded Systems" 22-28, June 2016

## SEMINARS / CONFERENCES ATTENDED

PROGRAMME	HELD AT	DURATION
Research perspectives of Signal Processing	TEQIP II sponsored FDP by Dept of ECE, PSG College of Technology	05-08-2016 to 11-08-2016 (7 Days)
Real time Embedded Systems and IoT	TEQIP II sponsored FDP by Dept of EEE, PSG College of Technology, Coimbatore	22-06-2016 to 28-06-2016 (7 days)
Strategy for Higher Education	One Day seminar by PSG Centre for Academic, Research and Excellence (CARE), Coimbatore	30-01-2016 (1 day)
Student Counseling	Canada India Institutional Co-operation Project (CIICP) by PSG Polytechnic College, Coimbatore	29-6-2013 (1 day)
Analysis of Electrical and Electronic Systems using MATLAB and PSpice	TECQIP Sponsored FDP by Dept of EEE, PSG College of Technology	20-06-2013 to 26-06-2013 (7 days)
Computational Intelligence – An Academic, Industrial and Social Perspective	AICTE sponsored FDP conducted by Dept of Computer Science and Engineering, PSG College of Technology, Coimbatore	30-5-2013 to 12-06-2013 (14 days)
Management Capacity Enhancement Programme (MCEP-2013) on Timeless Leadership	TEQIP II sponsored MCEP 2013 by PSG College of Technology in association with Indian Institute of Management,	19-9-2013 to 20-09-2013 (2 days)
Latest Trends in Test and Measurement Technology	One Day workshop Conducted by Dept Of EEE, Coimbatore Institute of Technology, Coimbatore	21-03-2013 (1 day)
Sensor Networks and Cloud Computing	TEQIP-II Sponsored FDP by Dept of ECE Government	12-02-2013 to 18-02-2013

	College of Technology, Coimbatore	(7 days)
Research Issues in Software Defined Networks	TEQIP-II Sponsored FDP by Government College of Technology, Coimbatore	11-10-2012 to 17-10-2012 (7 days)
Introduction to Research Methodologies	Two week ISTE Workshop by IIT Bombay and PSG College of Technology	25-06-2012 to 04-07-2012 (10days)
Research Challenges and Emerging Trends in Intelligent Information Retrieval	Two Week AICTE sponsored SDP by Dept of Mathematics and Computer Applications, PSG College of Technology	21-04-2012 to 05-05-2012 (15 days)
Mathematics for Electrical and Mechanical Sciences	National Workshop by Dept of EEE, PSG College of Technology	2-03-2012 to 3-03- 2012 (2 Days)
Healthy Youth for Healthy India	NSS Cell Anna University at Sri Krishna college of Engineering and Technology, Kuniamuthur, Coimbatore	05-10-2006 (1 day)
Mixed Signal VLSI Design and Test	Dept of EEE, PSG College of Technology	2-12-2005 to 3-12-2005 (2 Days)
Refresher Course	NSS Training and Orientation centre, Avinashilingam Institute of Home Sciences and Higher Education for Woman, Coimbatore	25-07-2005 to 29-07- 2005 (5 Days)
AICTE-ISTE STTP on “Networking Trends for Global Communications”	PSG College of Technology	28-3-2004 to 10-4-2004
NSS Orientation Course	Sri Avinashilingham Education Trust Institutions, Coimbatore	30-7-2003 to 8-8-2003
AICTE-ISTE Winter School on “ Wired and Wireless Computer Communication Systems”	PSG College of Technology	10-11-02 to 23-11-02
AICTE sponsored National Seminar on “Trends in Biomedical Instrumentation”	Shanmugha College of Engineering, Thanjavur	9-10-99 to 11-10-99
ISTE Summer School on “DSP, Wavelets, Fractals and Chaos”	Amrita Institute of Technology, Coimbatore	17-5-99 to 28-5-99
Short Term QIP course on “Fuzzy Logic and its Engineering Applications”	Indian Institute of Technology, Kanpur	3-5-99 to 9-5-99
AICTE-ISTE Winter School on “ Computer Simulation of Power Electronic Systems”	PSG College of Technology	17-11-96 to 30-11-96

AICTE-ISTE Winter School on “ Digital ASIC Design”	Indian Institute of Technology, Chennai	28-11-94 to 2-12-94
AICTE-ISTE Winter School on “ Wind and Solar based Power Generation and Conversion”	PSG College of Technology	14 -11-94 to 26-11- 94
Instruction Enchancement Programme on “ Computer Graphics”	Indian Institute of Technology, Mumbai	2-5-94 to 10-6-94

## **SPECIAL LECTURES DELIVERED**

- Delivered lecture at Sri Shakthi Institute of Engineering and Technology on the topic Analog VLSI Circuits on 23-04-2010 for AICTE sponsored SDP in VLSI Design and Testing.
- Delivered lecture at PSG College of Technology on the topic of CMOS Sub circuits in Mixed Signal VLSI Design and Test course on 3-12-2005

## **AWARDS**

- Best NSS Programme Officer of Anna University, Chennai for the year 2004-05
- Dhakshinamoorthy Best Teacher Award in PSG Tech for the year 2012-2013

## **MEMBERSHIP OF PROFESSIONAL BODIES**

Life Member of ISTE

## **DOCTORAL GUIDANCE / SUPERVISION**

Number of Ph.D under progress: 2  
Number of Ph.D Completed: 6