



Dr. G. Florence Sudha
B.Tech., M.Tech., Ph.D., MISTE, MIEEE
ASSOCIATE PROFESSOR

1. Name: **GNANOU FLORENCE SUDHA**

2. Date of Birth: **12.09.1971**

3. Present Position: **Professor**
Dept. of Electronics and Communication Engg.
Pondicherry Engineering College, Pondicherry – 605 014.

4. Educational profile:

University	Degree	Year of passing	Specialization
Pondicherry University	B.Tech	1992	Electronics and Communication
Pondicherry University	M.Tech	1994	Electronics and Communication
Pondicherry University	Ph.D	2005	Medical Optics and Image Processing

5. Employment record: **19 years experience**

University/college	Designation	Period
Pondicherry Engineering College	Lecturer	Aug 95 – Aug 2005
Pondicherry Engineering College	Asst. Professor	Oct 2005 - Oct 2008
Pondicherry Engineering College	Associate Professor	Oct 2008 - Oct 2011
Pondicherry Engineering College	Professor	Oct 2011 - till date

6. Consultancy and Sponsored activities:

1. Principal Investigator for the DST sponsored project “ Feasibility study on the Development of an instrument for noninvasive prognosis of dengue “ sanctioned in August 2013 , grant received in March 2014 for Rs.21.21 Lakhs.(2014-2016).
2. Principal Investigator for AICTE – RPS project titled” Autonomous wireless health monitoring system” with sanctioned amount Rs.9 Lakhs (2011-13).
3. Co-Coordinator for the AICTE – MODROBS project titled ” Modernization of the Advanced Communication lab with sanctioned amount Rs. 20 Lakhs.(2013-2014)
4. Conducted three sponsorship projects two with Dept. of Science and Technology and one with JSS Medical Hospital, Mysore.
5. Established the Embedded Systems laboratory in ECE Dept under a MOU with Freescale Semiconductors, Bangalore.

7. Research Guidance:

1. Recognized as a Supervisor in Pondicherry University to guide Ph.D and currently guiding 7 candidates.
2. Completed 1 candidate on the thesis titled 'Security enhancement algorithms for MPEG 2 and H.264 video' in July 2013 .

8. Area of Research :

Signal Processing, Image Processing and Biomedical Engg. ,

9. Publications:

International Journals:

1. G.F.Sudha and T.G.Palanivelu, "Polarmetric imaging of subsurface tissue – numerical results", Journal of BIOMEDICAL OPTICS, SPIE Publications, vol.10(5), September/October 2005, pp.054014-1-054014-8. ISSN 1083-3668

2. G. F. Sudha, V. Rajkumar, T. Kadiravan, M. Manoj and K. Ashok, "Studies On Skin Temperature Changes On A Diabetic Foot "IFMBE Proceedings SpringerLink Book series, Volume 21 Springer Berlin Heidelberg, pp.683-686, 2008 ISSN: 1680-0737, ISBN 978-3-540-69138-9 (Print) 978-3-540-69139-6 (Online)
3. G.F. Sudha and S. Karthik , "Improved LPC Vocoder using Instantaneous Pitch Estimation Method, International Journal of Wireless Networks and Communications, Research India Publications , Volume 1, Number 1 ,2009, pp. 43–54. ISSN 0975-6507
4. G.F.Sudha and Hephzibah Kesia, "Real-Time Video Encryption Based On Lorenz Chaotic System", International journal of Computations in Computer, mathematical sciences and applications, vol.3, no.1-2, Jan-June 2009, pp.41-52. ISSN 0973-6786
5. L.Krishna Bharathi and G.F.Sudha Security Enhancement Using Mutual Authentication in Existing CDMA Systems , International Journal on Computer Science and Engineering, Vol. 02, No. 02, 2010, pp. 237-245, ISSN : 0975-3397.
6. L.M.Varalakshmi and G.F.Sudha, "Performance Enhancement Of Binary Randomized Arithmetic Coding For Multimedia Encryption, International Journal of Recent Trends in Engineering and Technology, ACEEE, Vol. 3, No. 2, May 2010 , pp. 6-8. , ISSN: 1797-9617
7. L. M. Varalakshmi and G. Florence Sudha, "Selective Encryption of Video Using Multiple Chaotic Maps", Information Processing and Management, International Conference on Recent Trends in Business Administration and Information Processing, BAIP 2010, Trivandrum, Kerala, India, March 26-27, 2010. Proceedings, SpringerLink Book series, Volume 70, Springer Berlin Heidelberg, pp.164-168. ISSN: 1865-0929, ISBN978-3-642-12213-2 (Print) 978-3-642-12214-9 (Online)
8. V. Vijayalakshmi, L. M. Varalakshmi and G. F. Sudha, " Efficient Encryption of intra and Inter Frames in MPEG Video , Recent Trends in Network Security and Applications , Communications in Computer and Information Science, SpringerLink Book series,2010, Volume 89, Part 1, 93-104, Springer Berlin Heidelberg, New York. Proceedings of the Third Intl. conference CNSA 2010, Chennai, India, July 23-25 2010. , ISSN: 1865-0929.
9. G.F.Sudha and Anandkumar, " Fault detection and classification in Printed Circuit Board" International Journal of VLSI Design , Vol.2, No1, Jan-June 2011, pp.7-12. ISSN: 2229-3167.

10. L. M.Varalakshmi, G.F.Sudha ,” An enhanced encryption algorithm for video based on multiple Huffman tables”, Multimedia Tools and applications, SPRINGER journal, vol. 51, No.3, pp. 552-557, ISSN: 1380-7501 ,on line Feb 2011 , DOI 10.1007/s11042-011-0963-2, print Volume 64, Number 3, June 2013.
11. Gnanou Florence Sudha, M. Niveditha, K. Srinandhini, and S. Narmadha,” Hand Based Biometric Recognition Based on Zernike Moments and Log Gabor Filters”, International Journal of Research and Reviews in Information Sciences , Science Academy Publisher, United Kingdom, Vol.1, No.4, Dec 2011, pp. 119-125, ISSN: 2046-6439.
12. R.Gunasundari and G.F.Sudha,” Simulation model of a relay based autonompus ECG monitoring system using wireless sensors”, CiiT International Journal of Networking and Communication Engineering, vol. 4, No15, Dec 2012 pp.925 – 932.
13. L.M.Varalakshmi and G.F.Sudha, “A Selective Encryption and Energy Efficient Clustering Scheme for Video Streaming in Wireless Sensor Networks” Telecommunication systems Journal, SPRINGER Publications, Vol.52, No.4, April 2013. DOI 10.1007/s11235-013-9849-0 ISSN 1018-4864.
14. Varalakshmikumar, Florence Sudha, Elamparithiparithi, “ Performance Analysis of secured video transmission over 3G networks based on H.264/AVC”, International Journal of Multimedia Intelligence and Security, Inderscience Publishers Vol. 3, No. 1, 2013, pp.23-50, ISSN(online): 2042-3470, ISSN(print) 2042-3462.
15. A.V. Anantha Lakshmi and G.F.Sudha, “Design of a reversible single precision floating point subtractor”, SpringerPlus, January 2014, vol. 3:11, DOI:10.1186/2193-1801-3-11, ISSN: 2193-1801.
16. A.V. Anantha Lakshmi and G.F.Sudha, “Design of 4-Bit Reversible Shift Registers”, WSEAS Transactions on Circuits and Systems, Issue 12, Volume 12, December 2013, E-ISSN: 2224-266X
17. A.V. Anantha Lakshmi and G.F.Sudha, “Area and Speed Efficient Reversible Fused Radix-2 FFT Unit Using 4:3 Compressor”, International Journal on Recent Trends in Engineering and Technology, ACEEE, vol.10, Issue 2, Jan 2014, pp172-186, ISSN: 1797-9617.

18. G. Florence Sudha, S.Karthik and N.Selva Kumar, "Activity Aware Energy Efficient Priority Based Multi Patient Monitoring Adaptive System For Body Sensor Networks", Technology and Health care, IOS Publishers, Amsterdam ISSN: 0928-7329 (*In Press*)
19. Arul Elango and G.F.Sudha, "Inverse spiking filter based acquisition enhancement in software based Global positioning system receiver Applied Computing and Informatics, Elsevier , ISSN: 2210-8327 (*In press*).
20. Jai Jaganath Babu and G.F.Sudha,"Nonsampled Contourlet Transform Based Image Denoising in Ultrasound thyroid Images Using Adaptive Binary Morphological Operations" , IET Computer Vision (*In press*).

National Journals:

1. G.F.Sudha and T.G.Palanivelu, "Imaging deeper tissue using wavelength subtraction", Journal of Optics, Optical Society of India, vol.34, No.3, July-September 2005, pp.103-107. ISSN: 0972-8821
2. G.F.Sudha and R.Lakshmi Devi, "Multilayered security solution for Ad hoc networks" IETE Technical Review, vol.24, No.2, March-April 2007, pp.63-71. ISSN: 0256-4602
3. G.F.Sudha, G.Senthil Kumaran, J.Thirumoorthi, Balamurugan.K and Anand.M", "Optical Monitoring Of Bilirubin – Simulation And Experimental Results", Journal of Optics, Optical Society of India, vol.35, April-June 2007, pp.87-97. ISSN: 0972-8821
4. G.F.Sudha, M.Santosh Kumar, V.Swetha and N. Gobinath,"The use of Laser Doppler to classify Psoriatic Skin Lesions", Journal of Optics, Optical Society of India , vol 37, No.2, April-June 2008, pp. 63-71. ISSN: 0972-8821
5. G.F.Sudha, "Relevance Feedback for Image Retrieval", Journal of Institution of Engineers, India, vol.89, November 2008. ISSN: 0971-0469
6. G.F.Sudha,"Telemedicine-the wonder tool of Future Health care", IETE Journal of Education, vol.39, No2, April-June 1998, pp. 97-98. ISSN 0970-1664

7. G.F.Sudha,"Digital Sthetoscope", IETE Journal of Education, Vol.40, Nos 3&4, July-Dec 1999, pp.83-86. ISSN 0970-1664.
8. G.F.Sudha and T.G.Palanivelu, "Imaging subsurface tissue using polarized light - numerical results, Journal of Optics, Optical Society of India, vol.33, No.3, April-June 2004, pp.67-79. ISSN: 0972-8821
9. G.F.Sudha and T.G.Palanivelu,"Electronic Biopsy for skin cancer detection", Journal of Current Sciences, Indian Academy of Sciences, Bangalore, vol.87, No.5, 10th Sept.2004, pp.645-649. ISSN:0011-3891
10. G.F.Sudha and T.G.Palanivelu," Polarization based imaging of subsurface tissue, "Indian Journal of Pure and Applied Physics, NISCAIR, New Delhi, vol.42, Dec. 2004, pp.902-907. ISSN 0019-5596
11. G.F.Sudha and T.G.Palanivelu, "Imaging system brightens view for early detection of skin cancer", News India, Nature Publications, January 2005, pp.10.

International Conferences:

1. G.F.Sudha, P.Purushotaman and Janardhanan, "Wavelet Analysis of Heart Sounds, International Conference on Medical Diagnostic Techniques and Procedures, IIT Chennai, Dec 15-17,1999.
2. G.F.Sudha, Baskar, Hariharaputran, Riswan Mohamed and Surya Prakash, "Emergency Patient Tracking System", International Conference on Biomedical Engineering, Anna University, Chennai, 24-26 January, 2001.
3. G.F.Sudha, Chandra Devi, Mangalakshmi, Nameeta and Cauvery "Digital Watermarking of medical images using wavelets", Biovision 2001, International Conference on Biometrics, IISc, Bangalore, 21-24 December 2001.
4. G.F.Sudha and B.Nanchariah, "A distributed routing algorithm for data gram traffic in Teledesic system", International Conference on wireless communication networks, SSN College of Engineering, Chennai, 27-28 June 2003.

5. G.F.Sudha and T.G.Palanivelu, "Visibility enhancement of subsurface tissue images", World Congress on Medical Physics and Biomedical Engineering, Sydney, Australia, 24-29 August 2003.
6. G.F.Sudha and T.G.Palanivelu, "Reflectance Oximetry to assess Blood Oxygen", Kuala Lumpur International Conference on Biomedical Engineering, BioMed 2004, Kuala Lumpur, Malaysia, Sept 2-4, 2004.
7. G.F.Sudha and T.G.Palanivelu, "An investigation on wavelength effects for optical imaging", Kuala Lumpur International Conference on Biomedical Engineering, BioMed 2004, Kuala Lumpur, Malaysia, Sept 2-4, 2004.
8. V.Vijyalakshmi, G.F.Sudha , T.G.Palanivelu, " Secure Web Transactions in Sockets Layer using Elliptic Curve Cryptography", Intl. Conference on Information Security, Pondicherry Engineering college, Pondicherry, Dec 7-9, 2005.
9. G.F.Sudha, Narain Ponraj, Satyamurthy, Siva Balan, " Biometrics Based Encryption for Multimedia Content Protection", Intl. Conference on Information Security, Pondicherry Engineering college, Pondicherry, Dec 7-9, 2005.
10. G.F.Sudha and P.Jeyashree,"Facial Expression Recognition using SOM", ICCIMA , Mepco Schlenk Engineering College, Sivakasi, Dec 13-15, 2007.
11. .Hephzibah kezia and Gnanou Florence Sudha, "Encryption of Digital Video Based On Lorenz Chaotic System", 16th Intl conference on Advanced Computing and Communication, ADCOM 2008, MIT, Anna University, Chennai, Dec 15-17, 2008
12. B.Nancharaiah, Gnanou Florence Sudha and MBR. Murthy, "A scheme for efficient topology management of Wireless Ad hoc Networks using the MARI Algorithm", 16th IEEE International Conference on Networks , ICON 2008 , IIT Roorkee, India, Dec 12-14 2008.
13. L.M.Varalakshmi, G. Florence Sudha and S.Karthik, " Enhanced Multiple Huffman Table Encryption Scheme using Shuffling of Huffman Codewords", International Conference on recent advancements in electrical Sciences, KSR College of Engineering, Tamil Nadu, India, 8th and 9th January 2010.

14. L. M.Varalakshmi, G.F.Sudha, V.Vijayalakshmi, “ Enhanced encryption schemes of video for real time applicatios, IEEE Intl conference on Signal Processing, Communication, Computing and Networking Technologies (ICSCCN-2011) , Thuckalay, India, 21 and 22 July 2011.pp, 552-557
15. G.F.Sudha, A.V.Ananthalakshmi and Sarojini, “Energy Efficient Architecture For Portable Devices”, International Conference on Frontiers of Computer Science, J.N. Tata Convention Center, IISc, Bangalore, 7th -9th August 2011, ISBN 978-81-921929-0-1.
16. G.Vaikundam, G.F.Sudha, “Distributed Beamforming for Randomly Distributed Sensors with position error correction “,International Conference on Communication Technology and System Design 2011, Procedia Engineering, Elsevier , vol. 30, pp. 410-417, Dec-11, ISSN: 1877-7058, Amrita School of Engineering, Coimbatore, India. pp. 877-886. Dec.7-9, 2011.
17. L. M.Varalakshmi, G.F.Sudha ,” An Efficient Scalable Video Encryption Scheme for Real time applications”, International Conference on Communication Technology and System Design 2011, Procedia Engineering, Elsevier , vol. 30, pp. 852-860, , Dec-11, ISSN: 1877-7058, Amrita School of Engineering, Coimbatore, India. pp. 877-886. Dec.7-9, 2011.
18. L.M.Varalakshmi, V.Bharathi and G.F.Sudha., “A Selective Encryption scheme for H.264 video based on Permutation code and Dynamic Keys”, Proceedings of IEEE International Conference on Computer, Communication and Informatics (ICCCI 2012) SIET, Coimbatore, India. pp. 1-5. Jan 10-12, 2012.
19. L.M.Varalakshmi, G.F.Sudha and K.Vijaylakshmi, “An efficient encryption scheme for H.264 Video combined with robust cross layer architecture for secured and enhanced QoS over 802.11e WLAN” , Proceedings of IEEE sponsored International Conference on Computing, Communication and Applications(ICCCA-2012) , PSNA College of Engineering and Technology, Dindigul, India. Feb. 22 -24, 2012
20. G.Vaikundam, G.F.Sudha, Distributed Beamforming for Randomly Distributed Sensor using Computationally Efficient Phase Adjustment based on Probability Function, International Conference on Electrical, Communication and Information Technology, Elsevier Proceeding of ICECIT, pp 230-242,Dec.,21-23, 2012, SRIT, Ananthapur

21. G.Vaikundam, G.F.Sudha , Distributed Beamforming for Randomly Distributed Sensor using Bisection Method and Dynamic Programming Technique, IEEE International Conference on Electronics, Computing and Communication Technology, Proceeding of IEEE CONECCT, pp 1-6, Jan.,21-23, 2013, IISC, Bangalore.
22. G.Vaikundam, G.F.Sudha, Distributed Dual Beamforming for Randomly Distributed Sensor using LS Estimation, IEEE International Advance Computing Conference, IACC, pp 494-499, Feb., 22-23, 2013, AKGCE, Ghaziabad.
23. G.Vaikundam, G.F.Sudha, Distributed Beamforming using Semiblind Retracement Technique for Randomly Distributed Sensor, IEEE International conference on Intelligent System and Signal Processing, ISSP, pp 137-142 ,March,1-3, 2013, GCET, Anand.
24. G.Vaikundam, G.F.Sudha , Novel Distributed Dual Beamforming for Randomly Distributed Sensor by Phase Tracking using Bilateral Probability Function, Proceeding of Springer ICACNI-April, 2013, CIT, Raipur.
25. A.V.AnanthaLakshmi, G.F.Sudha, "Design of a Novel Reversible Full adder and Reversible Full Subtractor", Springer Proceedings of the International Conference on Advances in Computing and Information Technology(ACITY), July 2012, Vol. 178, pp.623 – 632. ISBN No.: 978-3-642-31599-2.
26. A.V.AnanthaLkshmi, G.F.Sudha, "An Efficient Implementation of a Reversible Single Precision Floating Point Multiplier Using 4:3 Compressor", Springer Proceedings of the International Conference on Advances in Information Technology and Mobile Communications(AIM), April 2013, pp. 158 – 172, ISSN: 1865 – 0929.
27. A.V.AnanthaLakshmi, G.F.Sudha, "Transistor Representation of a Low Power Reversible 32-bit Comparator", Springer Proceedings of the International Conference on Advanced Computing, Networking and Informatics (ICACNI), June 2013, pp. 63 -74, ISSN : 1867-5662.
28. J.Jai Jaganath babu and Gnanou Florence Sudha,"An edge preserving and adaptive speckle noise reduction technique for Ultrasound Thyroid images using Nonsubsampled Contourlet Transform ", International conference on emerging trends in Electrical, communication and Information Technologies (ICECIT 2012), Elsevier proceedings, December 22nd and 23rd, 2012.

29. Keerthivasan A, Jai Jaganath Babu J and Gnanou Florence Sudha, " Speckle Noise Reduction in Ultrasound Images using Fuzzy Logic based on Histogram and Directional Differences", IEEE International conference on communication and signal processing (ICCSP13),3rd,4th & 5th April 2013, India.
30. J.Jai Jaganath babu and Gnanou Florence Sudha, " Non subsampled contourlet transform based image denoisng in ultrasound images using elliptical directional windows and block based noise estimation", Springer Proceedings of the International Conference on Advanced Computing, Networking and Informatics (ICACNI), June 2013, pp. 63 -74, ISSN : 1867-5662

National Conferences:

1. G.F.Sudha,"Computerized Sthetoscope", All India Conference on Biomedical Instrumentation-Indian Perspective, Kota, 20&21 Feb 1999.
2. G.F.Sudha, Hemavathy and Vidya, "Laryngeal disease detection by voice screening, National Conference on Biomedical Engineering, University of Roorkee, April 21-22, 2000.
3. G.F.Sudha and Santhanalakshmi,"Hybrid Frequency and Time Hopping using Kasami Sequence, IETE 21st Midterm Symposium on Emerging Wireless Communication Techniques and Systems, IETE Ahmedabad Centre, 8 and 9 April 2000.
4. G.F.Sudha, Chandra Devi, Mangalakshmi, Nameeta and Cauvery, "Watermarking of medical images using Wavelet transforms, Annual Technical Convention of IETE, Bangalore, 29-30 September 2001.
5. G.F.Sudha, K.Jayanthi and P.Dananjayen, "GFR - A new service category to support TCP traffic over ATM", National Conference on Communications , IISc, Bangalore, Jan 31 - Feb 1, 2003.
6. G.F.Sudha, B.Nancharaiah and M.Ranga Rao, "Reached the unreached through video conferencing", First national conference in Advances in Electronic Communications, National Engineering College, Kovilpatti, June 3- 4, 2004.

7. G.F.Sudha, Santhosh and Swetha, "Offline Signature Verification System", National Conference in Recent Advances in Communication Engineering, SRKR Engineering College, Bhimavaram, Andhra Pradesh, 24th and 25th June 2005.
8. G.F.Sudha and R.Lakshmi Devi, "Security solutions at network level in Manets" National Conference on Communication Technologies, Mepco Schlenk Engg. College, Sivakasi, March 10-11, 2006.
9. G.F.Sudha and Jeyashree," Interactive retrieval of Images using tree structured SOM", National Conference on Advanced Communication Techniques, Alagappa Chettiar College of Engg. & Tech., Karaikudi, 30-31 March 2007.
10. Hephzibah Kesia and G.F.Sudha, " Encryption of digital images based on Lorenz and Henon Chaotic maps ", First National Conference on Current trends towards converging technologies, Coimbatore Institute of Engg and Information technology, 7-8th March 2008.
11. Karthik.S and G.F.Sudha," Estimation of instantaneous pitch for speech processing applications", Second National Conference on Communication Technologies, Mepco Schlenck Engg. College, Sivakasi, 14th and 15th March 2008.

10. Courses attended:

Sl.No	Programme	Duration (week)	Organized by
1	Winter School on Recent trends in Diagnostic Maintenance, AICTE - ISTE Winter School Programme	15.12.1997 to 27 12.1997. (2 weeks)	Pondicherry Engineering College
2	Short-term course on Multimedia Communication	24.11.1998 to 4.12.1998. (2 weeks)	Electrical Engineering Department, IIT Chennai
3	ISTE Winter School on Recent trends in Advanced Material Science	10.12.1998 to 24.12.1998. (2 weeks)	Pondicherry Engineering College
4	Orientation Course for college and university teachers	3.6.1998 to 30.6.1998. (4 weeks)	Academic Staff College, Pondicherry University

5	AICTE Sponsored Induction Training Programme in Engineering	28.10.1999 to 17.11.1999.	Academic Staff College, Pondicherry University
6	ISTE Winter School on Telecommunication in Biomedical Engineering	15.3.199 to 27.3.1999. (2 weeks)	Pondicherry Engineering College
7	Regional Seminar on Fiber Optics and Applications	22 nd October 1999.	Pondicherry Engineering College
8	AICTE - ISTE short-term course on System Modeling and Simulation	18.11.2002 to 29.11.2002	Pondicherry Engineering College
9	One day workshop on Wireless Communication	28 th March 2003.	BSNL, Chennai and IIP cell, Pondicherry Engineering College
10	AICTE - ISTE short-term training programme on CDMA 2000 - an approach to 3G Wireless systems	15.12.2003 to 26.12.2003 (2 weeks)	Pondicherry Engineering College
11	AICTE-ISTE short term training programme on Fibre for the last mile connectivity,	1.12.2006 to 7.12.2006. (1 week)	Pondicherry Engineering College
12	TCS sponsored Faculty Development Programme on Information Security	31.8.2007 to 1.9.2007	Pondicherry Engineering College.
13	Dept. of Information Technology, New Delhi sponsored training programme on Information Security	1.06.2009 to 12.06.2009 (2 weeks)	Pondicherry Engg. College
14	AICTE sponsored Staff development programme on Recent trends in Parallel & Distributed Systems	16.11.2009 to 27.11.2009 (2 weeks)	Pondicherry Engg. College
15	Govt of India, Ministry of MSME sponsored Six Sigma Green Belt certification	19.04.2010 to 23.04.2010 (1 week)	Pondicherry Engg. College
16	Dept. of Information Technology, New Delhi sponsored training programme on Recent trend in Information Security	29.11.2010 to 10.12.2010 (2 weeks)	Pondicherry Engg. College
17	ISTE sponsored short term course on Nano Engineering materials	13.12.2010 to 23.12.2010 (2 weeks)	Pondicherry Engg. College

18	AICTE sponsored Staff development programme on Computational intelligence to power system analysis, control & optimization	06.06.2011 to 10.06.2011 (1 week)	Pondicherry Engg. College
19	AICTE sponsored STTP on Design of Embedded systems-issues and Challenges	16.4.2012 to 27.4.2012 (2 weeks)	Pondicherry Engg. College
20	TEQIP sponsored STTP on Recent advances in Green Engineering	3.12.2012 to 7.12.2012 (1 week)	Pondicherry Engg. College
21	TEQIP sponsored STTP on Recent trends in Measurements and automation	10.12.2012 to 14.12.2012 (1 week)	Pondicherry Engg. College
22	ISTE-SRM sponsored short term course on Microelectronics for wireless communication	6.5.2013 to 11. 5.2013 (1 week)	Pondicherry Engg. College
23	AICTE sponsored FDP on Advances in Software Architecture	27.5.2013 to 7.6.2013 (2 weeks)	Pondicherry Engg. College

12. Expert lectures delivered:

DATE	PLACE	EVENT	OFFICIATED AS
28.03.14	Srinivasan Engineering college, Perambalur	International conference	Key note lecture on “Research issues in image processing”
13.09.13	Krishnasamy college of engineering and technology	Chief guest for one day workshop	Key note lecture on “Digital signal processing applications”
12.06.13	Adhiparasakti Engg college, Melmaruvathur	AICTE FDP on Digital Image processing in Wireless Communication	Expert Lecture on “Digital Signal Processors in Wireless communication”

09.05.13	Pondicherry Engineering College	ISTE-SRM sponsored short term course on Microelectronics for wireless communication	Expert Lecture on “Digital Image Processing in Wireless communication”
22.04.13	Pondicherry Engineering College	AICTE sponsored short term course on Security in wireless heterogenous networks	Expert Lecture on “Biometric security “
18.03.13	Veltech University, Avadi	Guest lecture	Lecture on “Power amplifier design”
08.03.13	Srinivasan Engineering college, Perambalur	Chief guest for inauguration function of National conference on Recent trends in Electronics, communication and control engineering	Key note lecture on “ Green radio technology”
12.01.13, 13.01.13	Anna University, Trichirrapalli	Anna university , affiliation committee	Expert Member
05.01.13, 06.01.13	Anna University, Trichirrapalli	Anna university , affiliation committee	Expert Member
08.09.2012	Annamalai University	Question paper scrutiny board	Expert Member
21.07.12	Veltech University, Avadi	Lab academic audit	Expert member
27.05.12	Mailam Engineering college, Mailam	AICTE FDP on Fuzzy logic and Image Processing	Expert Lecture on “ Application of Fuzzy filters for denoising “
16.05.12	Christ Engineering College, Puducherry	AICTE FDP	Expert Lecture on “Passive Optical Networks and Fibre to the home”
03.05.12	Adhiparasakti Engg college, Melmaruvathur	AICTE FDP on Digital Filters and Applications	Expert Lecture on “Applications of Digital filters in Image Processing”
24.04.12	Pondicherry Engineering College	AICTE FDP on Embedded Systems- Issues & Challenges	Expert Lecture on “Embedded System DSP processors”

29.08.11	Arunai Engineering College, Tiruvannamalai	Inauguration of ECE Student Council	Key note address on “Recent trends in Image Processing”
25.08.11	Christ Engineering College	Special lecture	Special lecture on “Digital Image Processing”
04.03.11	Kamban Engineering College, Tiruvannamalai	Intl. Conference on 4G Wireless Computer Networks	Chair person of session
07.03.11	Rajiv Gandhi College of Engineering and Technology, Puducherry	National Technical Symposium, PRESTO 2011	Paper presentation session judge.
02.03.11	Sri Jayaram Engineering College, Cuddalore	National Technical Symposium, Commutronix 11	Inaugural address and Paper presentation session judge
02.09.10	MIET Engineering college, Trichi	Two national workshop on optical communication and networks	Expert Lecture on Optical network
20.07.10	IFET college of engineering, Villupuram	Inauguration of Assoc. of Communication Engineers	Lecture on “Digital Image Processing”
04.03.09	Kamban Engineering college, Tiruvannamalai	National level technical symposium	Judge for technical session
21.09.08	IFET college of engineering, Villupuram	8 th National conference on VLSI design, signal processing and communication	Session chair
06.09.08	Mailam Engg. College, Mailam	Guest lecture	Lecture on “Power spectrum estimation”
29.07.08	Dhanalakhmi Srinivasan Engg. College, Perambalur.	Inauguration of Student association of Biomedical engineering	Key note address on “Biomedical optics”
24.03.08	VRS College of Engineering and Technology,	State level technical symposium	Key note address on “Signal Processing applications”

	Villupuram		
02.02.08	Sri Manakula Vinayagar Engg. College, Madagadipet, Puducherry	AICTE SDP "Research challenges and trends in Modern communication systems and networking"	Expert Lecture on "Entity authentication in computer networks"
01.09.07	Dhanalakhmi Srinivasan engg. College, Perambalur.	Two day national level workshop on signal and Image processing using Matlab	Expert Lecture on "Applications of Digital Image Processing"
26.07.07	Sri Manakula Vinayagar Engg. College Madagadipet, Puducherry	AICTE National seminar on "Advances in optical networking"	Expert Lecture on "Fibre to the home network"
22.03.07	Mailam Engineering college, Mailam	ISTE staff development programme on "Emerging trends in embedded technology"	Expert Lecture on "Image processing"
17.03.07	Dr. Pauls Engg. College	One day workshop on computer networks and signals and systems	Lecture on "Signals and systems"
19.02.07	SKP. Engg. College, Tiruvanmalai	Inauguration of Technical symposium Cyber probe 07	Inaugural address and session judge
30.11.06	Pondicherry Engg. College	ISTE STTP on Recent trends in All Optical Networks	Lecture on "FTH and PON"
20.11.06	Pondicherry Engg. College	DIT sponsored STTP on Information security	Expert lecture on "Biometric security"
30.09.06	Mailam Engineering college, Mailam	Special lecture	Talk on "Digital Signal processing"
26.11.05	SRM University	STTP on Recent trends in Biomedical Instrumentation	Expert talk on "Medical Optics"

13. **Area of specialization:** Signal Processing, Image Processing and Biomedical Engg.

14. Membership of Professional Organization:

- Life member of ISTE
- Life member of Biomedical Society of India.
- Life member of Optical society of India

15. Courses/ Seminars / Workshops organized:

- a) Coordinated the TEQIP sponsored Short term training programme on 'Wireless sensor networks-Issues and Challenges' during 11th to 15th November 2013.
- b) Coordinated the AICTE-ISTE Short term training programme on 'Multimedia Signal Processing and Communication' during 7th to 12 May 2008.
- c) Coordinated the ISTE-NSTEB Short term training programme on 'Faculty awareness camps on Entrepreneurship' during 13th to 15 May 2008.
- d) Convenor of the VSNL sponsored panel discussion in 2006 and 2007.
- e) Coordinator of the Inter Collegiate technical symposium "GENESIS" , conducted every 4 year in 2000, 2004 and 2008.
- f) Coordinated the Free scale sponsored 4 days hands on training programme for faculty on embedded system processors from 29.07.2010 to 1.08.2010.
- g) Coordinated a two day workshop on Linux operating system for BTech students during 2nd and 3rd March 2012.

16. Courses taught:

- Digital Signal Processing
- RF system design for wireless communication
- Satellite Communication
- Image Processing
- Electronics Devices and Circuits.

17. Board of studies membership details:

- Board of studies member of Pondicherry University
- Board of studies member for B.E and M.Tech Automotive Electronics & Embedded system of VelTech University

18. Reviewer of Journals and books:

- Reviewer for Springer Journal, Machine vision and applications
- Reviewer for Medical Science Monitor Journal
- Book reviewer for Tat Mcgraw Hill Publications
- Reviewer of technical papers in several International and National conferences.

19. Awards received:

- a. Received the **Govt. of Pondicherry prize for being the B.Tech** student with best academic record in the Dept. of Electronics and Communication Engineering, Pondicherry Engineering College (1988-1992)
- b. Received the **Pondicherry University Gold Medal** for outstanding performance in **M.Tech (Electronics and Communication Engineering)** for best academic record (1992-1994)
- c. Received the **M.S.Valiathan award** in the **International student paper competition** organized by the Biomedical Society of India, in the International Conference on Biometrics, Biovision 2001, held in IISc, Bangalore during Dec.22-24, 2001 for the paper titled "Digital Watermarking of medical images using Wavelets".
- d. Received the **best paper award for the paper** "Security solutions at network level in Manets", G.F.Sudha and R.Lakshmi Devi at the National conference on communication technologies, Mepco Schlenk Engineering college, Sivakasi, March 10-11,2006.