



**Dr. R. Gunasundari**  
**B.Tech., M.Tech., Ph.D., MISTE**  
**ASSOCIATE PROFESSOR**

### **1. Brief Introduction**

**Name** : **Dr.R.Gunasundari**

**Date of birth** : 31.03.1974

**Designation** : **Associate Professor**

**Experience** : **16 years** (Teaching and Research)

**Address for Communication:** Department of Electronics and Communication Engg.,  
Pondicherry Engineering College,  
Pillaichavady, Pondicherry-605 014.  
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Mail: gunasundari@pec.edu, r\_gunasundari@rediffmail.com

### **2. Educational Qualification with specialization**

<b>Degree</b>	<b>Specialization</b>	<b>Year of passing</b>	<b>Institution/University</b>
B.Tech	Electronics & Communication Engineering	1995	Pondicherry Engineering College
M.Tech	Electronics & Communication Engineering	1998	Pondicherry Engineering College
Ph.D	Information & Communication Engineering	2009	Anna University, Chennai - 25

### **3. Academic Experience:**

Sl. No	Designation	Organization /Institution	Department	Whether UG/PG/ Research	Duration		Permanent/ Temporary/ Contract/ Consolidated
					From	To	
1	Associate Professor	Pondicherry Engineering College	Electronics & Communication Engineering	UG&PG	09.7.2012	Till date	Permanent
2	Assistant Professor	Pondicherry Engineering College	Electronics & Communication Engineering	UG&PG	09.7.2009	08.7.2012	Permanent
3.	AICTE QIP for Pursuing Ph.D	Anna University, Chennai	Electronics & Communication Engineering	UG & Research	10.8.2005	11.8.2009	Deputation
4.	Lecturer & Senior Lecturer	Pondicherry Engineering College	Electronics & Communication Engineering	UG&PG	09.7.1999	08.7.2009	Permanent

### **3.1 Achievements / Other Employment Records**

S.No	Position	Institution / Organization	Year
1	Scientist Engineer - C	ISRO Satellite center, Bangalore	1999
2	Scientific officer / Engineer - C	Indira Gandhi Centre for Atomic Research(IGCAR), Kalpakkam	2001
3	Lecturer	Anna University, Chennai	2003

### **4.Research Activities**

No. of Ph.D. Scholars pursuing research: 4

**Area of Specialization** : Wireless communications and networks, Wireless Sensor Networks, Satellite Communication, Mobile computing, Wireless Communication Networks, Medical Image Processing.

## **5. Publication Details**

### **Book**

1. **Gunasundari Ramalingam**, ‘Fault tolerant micro mobility protocols – Technology and Protocols for wireless networks’, ISBN: 978-3-639-37604-3, VDM Scientific Publishing House Ltd, 2011.
2. **Books Authored Under progress:**
  - i. Wireless and Mobile Communication, PHI Learning Private Ltd., Delhi
  - ii.. *Mobile Computing*, PHI Learning Private Ltd., Delhi

### **Best paper Award**

1. K.Viswanath, R.Gunasundari, "Kidney Stone Detection from Ultrasound Image by Level Set Segmentation and Multilayer Perception ANN," Elsevier International Multi Conference on Innovations in Engineering and Technology, organized by The Society Of Information Processing, Bengaluru and Vijaya Vittala Institute of Technology, Bengaluru , pp.38-48, August 2014.
2. T.Karthik and V.Rajasekaran, V.Devarajan, **R.Gunasundari**, K.Jayanthi, ‘Performance comparison of IEEE 802.11p and Mobile Wimax in Vehicular Communication’, IEEE - International Conference on Research and Development Prospects on Engineering and Technology (IEEE ICRDPET 2013), 194-199.
3. V.Devarajan, T.Uvaraj and **R.Gunasundari**, ‘ Reliable and efficient data dissemination in VANETs’ National conference on Green Technology concepts for Bridging the digital Divide using ICT, 5<sup>th</sup> & 6<sup>th</sup> July 2013.

### **International/ National Journals**

1. R.Divya and **R.Gunasundari**, ‘Non-Line-Of-Sight Environment based Localization in Wireless Sensor Networks’, International Journal of Computer Applications (0975 – 8887), Volume 96, No.6, pp 38 – 43, June 2014.
2. R.Divya, S.Sudharsan, **R.Gunasundari**, ‘Localization Based Range Map Stitching in Wireless Sensor Network Under Non-Line-of-Sight Environments’ International Journal of Research in Engineering and Technology, eISSN: 2319-1163, pISSN: 2321-7308 Volume: 03 Issue: 05 , pp 248 - 255, May-2014.

3. **R.Gunasundari**, T.Karthik and V.Rajasekaran, 'Integration of VANET-Wimax network', Journal of Information and communication Technologies, Vol. 3, Issue 2, Feb. 2013, pp 11-17.
4. **R.Gunasundari** and Thokchom Aravind, 'Performance Analysis of Feedback Suppression Schemes for Satellite Network', International Journal of Engineering and Innovative Technology, Vol.2, Issue 6, Dec. 2012, 405 – 412.
5. K.Ilanchezhian and **R.Gunasundari**, 'Performance analysis of MIMO Based WLAN Security Using Artificial Noise', International Journal of Networking and Communication Engineering, Print: ISSN 0974 – 9713 & Online: ISSN 0974 – 9616, July 2013, [DOI: NCE072013006].
6. Thokchon Aravind and **R.Gunasundari**, 'Hybrid Feedback Suppression Scheme for Satellite Networks', International Journal of Networking and Communication Engineering, Print: ISSN 0974 – 9713 & Online: ISSN 0974 – 9616, July 2013, [DOI: NCE072013009].
7. S.V.Mahesh Kumar and **R.Gunasundari**, 'Comparative Analysis and Earlier Detection of Cholesterol Based on the Measurement of Various Lipid Level Deposits in the Eye', International Journal of Digital Image Processing, Print: ISSN 0974 – 9691 & Online: ISSN 0974 – 9586, July 2013, [DOI: DIP072013010].
8. K.Viswanath and **R.Gunasundari**, 'Low Power VLSI based Design and Implementation of MLP-BP Neural Network for Detection of Kidney Stone in Real Time', International Journal of Automation and Autonomous Systems, Print: ISSN 0974 – 9659 & Online: ISSN 0974 – 9551, July 2013 , [DOI: AA072013007].
9. **R.Gunasundari** and Gnanou Florence Sudha, 'Simulation model of a relay based autonomous ECG monitoring system using Wireless Sensors ', International Journal of Networking and Communication Engineering, Vol 4, No 15, December 2012.
10. **R.Gunasundari** and Choragudi K.Y.Karthik, 'Effective secured spectrum sensing for cognitive radio channels', International Journal of Networking and Communication Engineering, Vol 4, No 12, December 2012.
11. **R.Gunasundari** and K. Muthukumaran, 'Data Reduction Mechanism using coverage based association method in wireless sensor networks' International Journal of Wireless Communication, vol 3, no 7, May 2011.
12. **R.Gunasundari**, R.Arthi and R.Geetha , 'Loss Mitigation Technique for Mobile Healthcare Systems' International Journal of Digital Image Processing, Vol. 2, No. 11, November 2010, pp 445 – 451, ISSN 0974 -9691

13. **R.Gunasundari**, R.Arthi and S.Priya, ‘ An efficient Congestion Avoidance Scheme for mobile health Wireless sensor Networks’, International journal of Advanced Networking and Applications, Vol. 02, Issue 3, Nov – Dec 2010, pp 693- 698. ISSN 0975 – 0290.
14. **R.Gunasundari**, R.Arthi and R.Geetha, ‘Non linear filtering Techniques for Loss Mitigation in mobile health care applications’, Journal of Electrical & Electronics Engineering, Vol. 1, no. 1 pp 27 -31, January – June 2010. ISSN 0976- 7363.
15. **R.Gunasundari** and A.R.Gunabarathy, ‘ Performance evaluation of integrated macro and micromobility protocols for wide area wireless networks’ Journal on Communication Technology, Issue 1, pp 61- 67, March 2010.ISSN 0976 – 0091.
16. **R.Gunasundari**, R.Arthi and R.Geetha ‘Loss Recovery for Mobile Healthcare Applications’ International Journal of Digital Image Processing, vol 3, no 1, January 2011. ISSN 0974 -9691
17. **R.Gunasundari** and S.Shanmugavel, ‘Fault Tolerant Cellular IP’, International Engineering Technology Journal on Communication Techniques , Vol 1, No. 1, pp 20 - 26, October 2007.
18. **R.Gunasundari** and S.Shanmugavel, ‘Hybrid HAWAII/CIP for Micro mobility in Wireless Communication Networks’, International Engineering Technology Journal on Information Systems , Vol 1, No. 2, pp 67 - 73, October 2007.
19. **R.Gunasundari** and S.Shanmugavel, ‘Influence of Topology on Micro Mobility Protocols for Wireless Networks’ , ANSI Information Technology Journal 6(7), ISSN 1812-5638, pp 966 -977, October 2007.
20. **R.Gunasundari**, ‘Envisioning a wireless future’, International Journal on information sciences and computing, vol 1, no. 1, pp 18, December 2007.
21. **R.Gunasundari** and S.Shanmugavel, ‘A Novel Approach for Fault Tolerance in Mobile IP based Wireless Networks’, IETE Journal of Research, Special Issue on Protocols for Resource, Link and Mobility Management for Wireless and Satellite Communication Networks, Vol 52, Nos. 2 & 3, pp187-192 March –June, 2006.

### **International/ National Conferences**

1. K.Viswanath, R.Gunasundari, “Kidney Stone Detection from Ultrasound Image by Level Set Segmentation and Multilayer Perceptron ANN,” *Elsevier International Multi Conference on Innovations in Engineering and Technology*, pp.38-48, August 2014.

2. R.Divya and **R.Gunasundari**, 'Node Localization in Wireless Sensor Network Under Non-Line-Of-Sight Scenario', International Conference on Signal Processing, Embedded System and Communication Technologies and their applications for Sustainable and Renewable Energy, pp 309-312 April 2014.
3. R.Divya and **R.Gunasundari**, 'Non-Line-Of-Sight Based On Range Map Stitching in Wireless Sensor Network, National Conference on Intelligent Systems Computing and Information Technology, pp 366-370 May 2014.
4. K.Ilanchezhian and **R.Gunasundari**, 'Improved MIMO Based WLAN Security Using Artificial Noise', Proceedings of AICTE sponsored National Conference on Green Technology Concepts for Bridging the Digital Divide using ICT, pp 29-33, 5-6 July 2013.
5. V.Devarajan, D.Megalajothi and **R.Gunasundari**, 'QoS-Enabled VANET-WIMAX-LTE Integration in Heterogeneous Wireless Networks', Proceedings of AICTE sponsored National Conference on Green Technology Concepts for Bridging the Digital Divide using ICT, pp 109-113, 5-6 July 2013.
6. Thokchon Aravind and **R.Gunasundari**, 'Hybrid Feedback Suppression Scheme for Satellite Networks', Proceedings of AICTE sponsored National Conference on Green Technology Concepts for Bridging the Digital Divide using ICT, pp 124-128 , 5-6 July 2013.
7. S.V.Mahesh Kumar and **R.Gunasundari**, 'A Comparative Study of Earlier Detection of Cholesterol Using Invasive and Non Invasive Methods', Proceedings of AICTE sponsored National Conference on Green Technology Concepts for Bridging the Digital Divide using ICT, pp 325-330 , 5-6 July 2013.
8. K.Viswanath and **R.Gunasundari**, 'Low Power VLSI Based Design and Implementation of MLP-BP Neural Network for Kidney Stone Detection Using Fast Montgomery Multiplier and Carry Save Adder', Proceedings of AICTE sponsored National Conference on Green Technology Concepts for Bridging the Digital Divide using ICT, pp 331-336 , 5-6 July 2013.
9. V.Devarajan, T.Uvaraj and **R.Gunasundari**, 'Reliable and Efficient Data Dissemination in VANETS', Proceedings of AICTE sponsored National Conference on Green Technology Concepts for Bridging the Digital Divide using ICT, pp 395-399 , 5-6 July 2013.
10. V.Devarajan, **R.Gunasundari**, D.Megalajothi, T.Uvaraj, 'Performance Analysis of Integrated VANET-LTE Architecture for Wireless Networks', IEEE International Conference on Advanced Research in Engineering and Technology, IEEE ICARET , pp 337-341, Feb 2013

11. V.Devarajan, **R.Gunasundari**, T.Karthik and V.Rajasekaran, 'Integration of VANET-Wimax network', IEEE International Conference on Advanced Research in Engineering and Technology, IEEE ICARET , pp 695- 700, Feb 2013.
12. T.Karthik and V.Rajasekaran, V.Devarajan, **R.Gunasundari**, K.Jayanthi, 'Performance comparison of IEEE 802.11p and Mobile Wimax in Vehicular Communication', IEEE - International Conference on Research and Development Prospects on Engineering and Technology, IEEE ICRDPET, pp 194-199, March 2013.
13. **Dr. R.Gunasundari**, M. Rathan Kumar 'Effective Replica Allocation for MANETS' International Conference on Advances in Engineering and Technology (ICAET), pp 27-28, May 2011.
14. **R.Gunasundari**, R.Arthi, S.Priya and R.Geetha, 'Packet Loss Avoidance Scheme for Mobile Healthcare Wireless Sensor Networks ' Proceedings of the Divisional Conference on Mobile Computing DCMC 2010 11th-12th August, 2010
15. **Gunasundari R.** and Shanmugavel S. (2009), 'Integration of Macro and Micromobility Protocols', Wireless IP communication (WIPcom) workshop held in conjunction with IEEE International Conference on Communication systems and Networks (COMSNETS) Bangalore, India, pp 619 - 626.
16. **Gunasundari R.** and Shanmugavel S. (2009), 'Performance Evaluation of Mobile IPv4 and Mobile IPv6 in IP based wireless Networks', Next generation Interworking (NGInt) workshop held in conjunction with IEEE International Conference on Communication systems and Networks (COMSNETS), Bangalore, India, pp 653 - 659.
17. **Gunasundari R.** and Shanmugavel S. (2008), 'Fault Tolerant HAWAII Micromobility Protocol for Mobile IP services in wireless networks', Proceedings of 4<sup>th</sup> International Symposium on Frontiers in Networking with Applications (FINA2008) held in conjunction with IEEE 22<sup>nd</sup> International Conference on Advanced Information Networking and Applications (AINA 2008), GinoWan, Okinawa, JAPAN, pp. 457 – 462.
18. **Gunasundari R.** and Shanmugavel S. (2008), 'Comparison of Fault Tolerant Micromobility Protocols for Wireless Access Networks', Proceedings of IEEE International Conference on Signal Processing, Communications and Networking (IEEE ICSCN 2008), Organized by IEEE Madras, IETE, and MIT, Anna University, Chennai, pp. 405 -409.
19. **Gunasundari R.**, Tamilselvi A., Subha C., Priyadharshini and Shanmugavel S. (2008), 'Performance Comparison of Mobile IP and Session Initiation Protocols in Wireless Networks', Proceedings of the 4<sup>th</sup> National Conference on Signals Systems and Communication (NCSSC '08), Anna University, Chennai, pp. 14-15.
20. **Gunasundari R.** and Shanmugavel S. (2007), 'Enhancing the Fault Tolerance of Hierarchical Mobile IP in Wireless Systems', Proceedings of National Conference on Computing for Nation Development (INDIACom), ISSN 0973-7529, ISBN 978 -81-

21. **Gunasundari R.** and Shanmugavel S. (2007), 'Performance Comparison of Micromobility Protocols on various topologies with UDP Traffic', Proceedings of International Conference on Modeling and Simulation (CITICOMS), Organized by Coimbatore Institute of Technology, CSIR, New Delhi and Department of Science and Technology, New Delhi, pp. 44-45.
22. **Gunasundari R.** and Shanmugavel S. (2007), 'Fault Tolerant Micromobility Protocols for Wide Area Wireless Networks', Proceedings of International Conference on Modeling and Simulation (CITICOMS), Vol. III, Organized by Coimbatore Institute of Technology, CSIR, New Delhi and Department of Science and Technology, New Delhi, pp. 55-56.
23. **Gunasundari R.,** Bakyalakshmi K. and Shanmugavel S. (2007), 'Performance of HAWAII Micromobility Protocol for different topologies in IP Networks', Proceedings of 2<sup>nd</sup> National Conference on Trends in Industrial and Commercial Applications of Electronics (TICAE), Sathyabama University, pp.142-147.
24. **Gunasundari R.,** Divya M. and Shanmugavel S. (2007), 'Study of Cellular IP Protocol for Mobile Wireless Networks', Proceedings of 2<sup>nd</sup> National Conference on Trends in Industrial and Commercial Applications of Electronics (TICAE), Sathyabama University, pp.148-152.
25. **Gunasundari R.** and Shanmugavel S. (2007), 'Robust Hierarchical Mobile IP for Wireless Networks' Proceedings of International Conference on Advances in Electronics and Communication (icon ADELCO), ISBN: 978-81-904334-0-2, National Engineering College, Tamilnadu, pp. 85 -95.
26. **Gunasundari R.** and Shanmugavel S. (2006), 'Signaling cost Analysis of Fault Tolerant Hierarchical Mobile IP', Proceedings of IEEE International Conference on Communication and Power system (ICCPS), Velammal Engineering College, Chennai and IEEE Madras Section, pp. 148-154.
27. A.R.Gunabarathy and R.Gunasundari, 'Actuator Fault Estimation Using Unknown Input Observer', Proceedings of International Conference on Communication and Power system (ICCPS), Velammal Engineering College, Chennai and IEEE Madras Section, pp 73 -77, December 14 -16, 2006.
28. **Gunasundari R.** and Shanmugavel S. (2006), 'A load disseminated mobility management for multistratum Hierarchical in Mobile IP based Wireless System' Proceedings of International Conference on Recent Trends in Information Systems (IRIS), ISBN: 81-7764-954-X, National Engineering College, Tamilnadu, pp. 226-239.
29. **R.Gunasundari,** G.Sivaradje and V.Prithiviraj, 'VHDL implementation of text to speech converter for satellite radio receivers' , Proceedings of the 10<sup>th</sup> National Conference on



Communicatios(NCC), Indian Institute of Science, Bangalore, pp 274 – 278, January 30 – Feb 1, 2004.

30. **R.Gunasundari**, G.Sivaradje and V.Prithiviraj, ‘Source model for VBR-Video traffic over ATM Networks’, Proceedings of the 9<sup>th</sup> National Conference on Communicatios(NCC), Indian Institute Technology, Madras, pp 314-318, January 31 – Feb 2, 2003.
31. **R.Gunasundari** and S.Palanivel, ‘A frame work for virtual learning/ classroom and its implementation issues in India’, Proceedings of National Conference on Emerging Trends in Engineering Education, organized by AICTE and Engineering Education Foundation, Pune, pp 102 - 103, October 25-26, 2002.
32. **R.Gunasundari**, S.Sakthivel Murugan, G.Sivaradje and P.Dananjayan, ‘Response time analysis for wireless broadcast data delivery system’, Proceedings of the 8<sup>th</sup> National Conference on Communicatios(NCC), Indian Institute Technology, Bombay, pp 443-447, January 25 – 27, 2002.
33. **R.Gunasundari**, G.Sivaradje and P.Dananjayan, ‘Image segmentation based on colour classification’, Proceedings of AICTE- ISTE National Conference on Document Analysis and Recognition, P.E.S College of Engg., Karnataka, pp 181- 186, July 13-14, 2001.
34. **R.Gunasundari** and G.Sivaradje, ‘Influence of Handoff process on channel holding Time distribution’, Proceedings of the National Seminar on Convergence of Technology by 2010, Arunai Engineering College, Tiruvannamalai, Tamil Nadu, pp 210 - 212 January 20- 21, 2001.
35. **R.Gunasundari** and V.Prithiviraj, ‘A Global Communication Network Employing low earth orbiting satellites’, Proceedings of the National Seminar on Convergence of Technology, Arunai Engineering College, Tamil Nadu, pp 213 - 217 Jan. 20- 21, 2001.
36. **R.Gunasundari**, G.Sivaradje and V.Prithiviraj, ‘ATM based routing for non Geo Stationary Satellites’, Proceedings of the International Conference ASIA – PACIFIC TELECOM on Advances in Telecommunication and Information Technology, VIT, Vellore, pp 71 – 78, December 14-15, 2000.

### **6. Seminars/ Faculty Development Programs/ Workshops Attended**

<b>Sl. No.</b>	<b>Title of program/course</b>	<b>Organizing Institute</b>	<b>Sponsoring organization</b>	<b>Category of course</b>	<b>Period</b>	<b>Duration (weeks/days)</b>
1	Quality Assessment and Accreditation of Higher Education Institutions – criteria, Techniques and Issues	Pondicherry University	School of Education	National Seminar	21.03.2014 to 22.03.2014	2 days
2	Numerical computational Techniques using MATLAB	Pondicherry Engineering College	Department of ECE, PEC	Workshop	31.01.2014 and 01.02.2014	2 days
3	Advances in software Architecture, Engineering, Modelling Tools and Programming Practices	Pondicherry Engineering College	AICTE	FDP	27.05.2013 to 07.06.2013	2 weeks
4	Security in wireless Heterogeneous Networks – Issues & Challenges	Pondicherry Engineering College	AICTE	FDP	15.04.2013 to 26.04.2013	2 weeks
5	Linux Operating System	Pondicherry Engineering College	Department of ECE, PEC	Workshop	05.01.2013 and 12.01.2013	2 days
6	Recent advances in Green Engineering	Pondicherry Engineering College	TEQIP	Faculty development program	03.12.2012 to 07.12.2012	1 week
7	Emphasis on Smart Operation & control of power markets using power electronic components	Pondicherry Engineering College	TEQIP	Faculty development program	19.11.2012 to 23.11.2012	1 week
8	Design of Embedded systems – Issues and Challenges	Pondicherry Engineering College	AICTE	Staff Development programme	16.4.2012 to 27.4.2012	2 weeks

9	Recent advances in Nano Technology and its applications	Pondicherry Engineering College	AICTE	Staff Development programme	19.10.2011 to 02.11.2011	2 weeks
10	Nano Engineering materials	Pondicherry Engineering College	ISTE	Short term training program	13.12.2010 to 23.12.2010	2 weeks
11	Recent Trends in Information Security	Pondicherry Engineering College	ISEA	Short term training program	29.11.2010 to 10.12.2010	2 weeks
12	Embedded system processors	Pondicherry Engineering College	Pondicherry Engineering College	Faculty Training Programme	29.7.2010 to 01.8.2010	1 week
13	Six Sigma Green Belt Training and Examination	Pondicherry Engineering College	MSME Development Institute, Govt. of INDIA	Training and Examination	19.4.2010 to 23.4.2010	1 week
14	Recent trends in parallel and Distributed systems- Architecture, Operating Systems and Algorithms	Pondicherry Engineering College	AICTE	Staff Development programme	16.11.2009 to 27.11.2009	2 weeks
15	Information Security	Pondicherry Engineering College	Department of Information Technology, New Delhi(DIT)	Short term course	01.06.2009 to 12.06.2009	2 weeks
16	Introduction to VLSI Design Techniques	Easwari Engineering College	AICTE	Staff Development Program	17.11.2008 to 28.11.2008	2 weeks
17	Research Challenges in Wireless and Optical Communication Networks	Anna University	Department of Electronics and Communication	workshop	30.03.2007 to 31.3.2007	2 days
18	Computer Hardware & Networking Technologies	National Institute of Technical Teachers Training & Research	AICTE-ISTE	Short term training program	05.03.2007 to 09.03.2007	4 days
19	Medical Electronics	National Institute of Technical Teachers Training & Research	AICTE-ISTE	Short term training program	01.08.2005 to 05.08.2005	1 week
20	Wireless Communication	Pondicherry Engineering College	Bharat Sanchar Nigam Limited	Workshop	28.03.2003	1 day

17	CDMA2000- An Approach to 3G Wireless System	Pondicherry Engineering College	AICTE-ISTE	Short term training program	15.12.2003 to 26.12.2003	2 week
18	Compression Techniques for Multimedia Applications	Pondicherry Engineering College	AICTE-ISTE	Short term training program	12.06.2000 to 23.06.2000	2 week
19	Fiber Optics and Applications	Pondicherry Engineering College	Department of Electronics and communication Engineering	Workshop	22.10.1999	1 day
20	Telecommunication in Biomedical Engineering (TCBE)	Pondicherry Engineering College	Department of Electronics and communication Engineering	Workshop	15.03.1999 to 27.03.1999	2 week
21	Induction Training Program	Pondicherry University	Pondicherry University	AICTE	17.12.1999	1 day
22	Evolution of Satellite Broadcasting	Anna University	Anna University	Workshop	29.08.1998 to 30.08.1998	2 day

### **7. Expert Lectures Delivered**

1. Delivered lecture on “Introduction to Wireless Sensor Networks” in one week TEQIP sponsored Faculty Development Program on Wireless Sensor Networks - Issues and Challenges organized by Department of Electronics and Communication Engineering, Pondicherry Engineering College on 12.11.2013.
2. Delivered lecture on “Challenges in Wireless Sensor Networks” in two weeks AICTE sponsored Faculty Development Program on Emerging Trends in Wireless Communication organized by Department of Electronics and Communication Engineering, Vivekanandha Engineering college for Women, Salem on 18.11.2013.
3. Delivered lecture on “Simulation of Wireless Networks using Ns2” in two weeks AICTE sponsored Faculty Development Program on Emerging Trends in Wireless Communication organized by Department of Electronics and Communication Engineering, Vivekanandha Engineering college for Women, Salem on 18.11.2013.
4. Delivered lecture on “Issues and Challenges In Wireless Sensor Networks” organized by Department of Electronics and Communication Engineering, Sri Ganesh college of Engineering and technology, Pondicherry on 07.8.2013.
5. Delivered an invited talk titled “Microsensors for Wireless Applications” on 07.05.2013 in ISTE-SRM Sponsored Short Term Training Program on “Recent Advances in Microelectronics for Wireless Communication” conducted from 6<sup>th</sup> to 11<sup>th</sup> May, 2013.

6. Delivered an invited talk on “ Simulation of Wireless Networks ” in two weeks AICTE sponsored Faculty Development Program on Security in Wireless Heterogeneous Networks” organized by Department of Electronics and Communication Engineering, Pondicherry Engineering college on 22.04.2013.
7. Invited speaker for International conference on ‘Trendz in information sciences and computing (TISC 2007), held in Sathyabama University, December 12-14, 2007.
8. Delivered expert lecture in two days workshop on Communication organized by TIFACORE, Velammal Engineering College, Chennai, 2007.
9. Coordinated and delivered talk in Two days workshop in ‘Research challenges and Methodologies in wireless and optical communication networks’ at Anna University, Chennai, 2008.
10. Delivered special talk in Network simulators at Jayaram Engineering College, cuddalore, 2012.

### **9. Membership Details:**

Life member of ISTE

### **10.Membership Details :**

Member of Board of Studies in ECE board in Pondicherry University

### **11. Conferences/ Symposiums/ Courses / Workshops Organized**

<b>SI. No</b>	<b>Name of the event</b>	<b>Date(s)</b>	<b>Address of the Institution / organization where held</b>	<b>College level or Inter college level</b>
1	TEQIP FDP on Wireless Sensor Networks Issues & challenges	11.11.2013 to 15.11.2013	Pondicherry Engineering College	National level
2	AICTE Sponsored National Conference on ‘Green Technology Concepts for Bridging the Digital Divide using ICT’	05.7.2013 & 06.7.2013	Pondicherry Engineering College	National level
3	Employability Skills	29.7.2013 to 01.8.2013	TEQIP sponsored Training and Placement cell	Training for final year B.Tech students
4	Cloud Computing	06.2.2014 & 07.02.2014	i3Indya Technologies	Training faculties and students of other engineering colleges

5	Linux Programming	05.1.2013 & 12.1.2013	Pondicherry Engineering College	Training faculties and students of other engineering colleges
6	Embedded System	24-2-2012	Pondicherry Engineering College	Training faculties and students of other engineering colleges
7	All India level inter collegiate technical symposium- GENESIS 2012	22-2-2012 24-2-2012	Pondicherry Engineering College	National level
8	National level technical symposium & Annual Magazine release - ENC INFO 2011	25-2-2011	Pondicherry Engineering College	Inter collegiate
9	National level technical symposium & Annual Magazine release - ENC INFO 2010	04.3.2010	Pondicherry Engineering College	Inter collegiate
10	Familiarization of Glomosim and Network Simulator	9.7.2010 & 10.7.2010	Pondicherry Engineering College	Training faculties and students of other engineering colleges
11	Network simulator – ns2	14.12.2009	Pondicherry Engineering College	Training faculties and students of other engineering colleges

### **11. Industrial/International Relationship**

Co Principal Investigator in a project titled “Development of Mobile health care service” – through AICTE- AICTE Research Promotion Scheme Grant of Rs. Rs.8,75,000/- sanctioned during May 2011 - Ongoing

### **12. Courses Taught**

Special Topics in Communication Engineering, Wireless Sensor Networks, Satellite Communication, Circuit Theory, Analog Communication System, Communication Engineering, Electron devices and Circuits, Cellular Mobile Communication, Digital Communication, Wireless Communication systems, Communication Lab, Communication Networks Lab, System Design using ICs Lab, Electron Devices Lab, Electron Devices and Circuits Lab, Electronic Circuits Lab I & II, Basic Electronics Lab.

### **13. Any other Relevant Information**

#### **i. Best paper Awards**

4. T.Karthik and V.Rajasekaran, V.Devarajan, **R.Gunasundari**, K.Jayanthi, 'Performance comparison of IEEE 802.11p and Mobile Wimax in Vehicular Communication', IEEE - International Conference on Research and Development Prospects on Engineering and Technology (IEEE ICRDPET 2013), 194-199.
5. V.Devarajan, T.Uvaraj and **R.Gunasundari**, 'Reliable and efficient data dissemination in VANETs' National conference on Green Technology concepts for Bridging the digital Divide using ICT, 5<sup>th</sup> & 6<sup>th</sup> July 2013.

#### **ii. Reviewer in Journals**

1. Reviewer in International Research Journal of Engineering Science and Technology IRJESTI
2. Journal of Geography and Regional Planning JGRP etc.,