Department of Information Technology

PERSONAL DETAILS

Name :	Dr. R. MEENAKSHI
Designation :	Professor, HOD
Educational Qualification :	M.E, Ph.D.
Experience:	26 Years 9 Months
Area of Specialization :	Wireless Communication, Computer Networks
Date of Joining :	05/01/2007
Email ID :	meenakshir.it@valliammai.co.in
Contact Numbers :	044-27454784	**Extn:** 8261

EDUCATIONAL DETAILS

S.No	Degree	Branch/Specialization	Institution / University	Year
1	B.E.	ECE	PSNA college of Engineering & Technology/ Madurai Kamaraj University	1991
2	M.Tech.	Communication Systems	Thiagarajar college of Engineering/ Madurai Kamaraj University	2002
3	Ph.D.	Wireless communication - Channel Estimation	Anna University	2018

PROFESSIONAL SOCIETY MEMBERSHIPS

1. Life Member in 'The Indian Society for Technical Education (ISTE)' with Membership Number 'LM 45223' from 2005.

2. Life Member in 'The Institution of Electronics and Telecommunication Engineers (IETE)' with membership number 'F211845' from 2009.

3. Life Member in 'Computer Society of India (CSI)' with Membership Number 'I 1500834' from 2014.

4. Life Member in 'The Indian Congress Association' with Membership Number 'L280708' from 2015

5. Life Member in 'Instrument Society of India' with Membership Number 'LM2278' from 2016.

6. Member in 'The society of Digital Information and Wireless Communications (SDIWC)' with Membership Number '14234'.

7. Member in 'National Cyber Safety and Security Standards' with Membership Number (NCSSS)' with Membership Number NCSSSASSOC1536317.

PUBLICATION DETAILS

JOURNALS

- Sandeep.S, Shandeep Srinivas.C, Dr.R.Meenakshi, Bharathwaj.V, "Smart Firewall Using Machine Learning" International Research Journal of Engineering and Technology (IRJET), Vol. 10, issue - 2, February 2019

- R.Meenakshi P.Indumathi, "Bit Error Rate Minimization using Selection Mapping Technique in Time Frequency Training Orthogonal Frequency Division Multiplexing for Mobile Large-Scale Multiple Input and Multiple Output Systems" International Journal of Biomedical Engineering and Technology, Vol.27, issue 1/2, pp. 50-58, 2018

- Ms. R.Meenakshi B Anushiya, "Securing Data Transmission By Discovering Attacker" IJSART, Volume 4 Issue 3, MARCH 2018

- Laavanyaa V B, Manimozhi R, Meenakshi R, "Identification of Invalid Signatures in Wireless Mobile Network using Energy Level Monitoring" International Journal of Innovations & Advancement in Computer Science (IJIACS), ISSN 2347 – 8616 Volume 7, Issue 3 March 2018

- R.Rajarajeshwari R.Meenakshi S.Soundharya G.Susmitha R.C.Yuva Bharathi, "Human Health Monitoring Using Redtacton Transceiver" International Research Journal of Engineering and Technology (IRJET), Volume: 05 Issue: 03, March 2018

- Ranjitha Priya A., Meenakshi R, Theepicaa P, Vasuki S, Yuvasri B, Review on Transportational Tracking System, International Journal of Control Theory and Applications, Volume 10, Number 26 2017

- R.Meenakshi P.Indumathi "Spectrally Efficient Time-Frequency Training Multiple-Input-Multiple-Output Orthogonal Frequency Division Multiplexing", Journal of Computational and Theoretical Nano science, Vol.14, issue 8, pp. 5046-5053, October 2017

- R.Meenakshi P.Indumathi, "Joint Time Frequency Channel Estimation in MIMO-OFDM Using Firefly Heuristic" Research Journal of Biotechnology Special Issue pp.242-251, January 2017

- R. Meenakshi, P. Indumathi, R. Raja Kumar "Performance Evaluation of Cyclic Prefix OFDM Using MIMO" Middle-East Journal of Scientific Research 24 (Techniques and Algorithms in Emerging Technologies): 602-610, Pp 602 – 610, ISSN 1990-9233, ISSN (Online) : 2394 -6237, 2016

- Durga.S Meenakshi.R "Time–Frequency Training Channel Estimation For Improving Energy Efficiency In OFDM", International Journal of Emerging Technology in Computer Science & Electronics (IJETCSE), ISSN: 0976-1353 Volume 22 Issue 2, MAY 2016

- Mrs.R.Meenakshi, S.Durga "Multi Carrier System – OFDM" International Journal of Science and Innovative Engineering & Technology, ISSUE VOLUME 1, MAY 2016

- Sandhiya Rani.D.J, Sathika Fathi Muthu.M, Mrs.R.Meenakshi, "Detecting Selfish Nodes Using E-Ack Algorithm In Manet's" International Journal of Advanced Research in Computer Science Engineering and Information Technology, Volume: 4, Issue: 3,Special Issue: 3 , ISSN_NO: 2321-3337, Apr,2016

- Ms.Gifty Maria Vincent, Mrs.R.Meenakshi " Joint Sparse channel Estimation and Data Detection in MIMO-OFDM Systems using Bayesian Strategy" International Journal of Applied Engineering Research, ISSN 0973-4562 . Vol 10, No 9 PP :8510- 8514 (2015).

INTERNATIONAL CONFERENCE

- Laavanyaa V B, Manimozhi R and Meenakshi R, 'Identification of Invalid Signatures in Wireless Mobile Network using Energy Level Monitoring' International Conference on Innovative Trends in

Engineering, Applied Science and Management, March 2018, Osmania University Campus, Hyderabad.

- R.Meenakshi, and P.Indumathi, "Bit Error Rate Minimization using SLM Technique in TFT OFDM for Mobile Large-Scale MIMO Systems", IEEE sponsored International Conference on Engineering and Technology (ICET), December 2016, Karpagam College of Engineering, Coimbatore.

- R.Meenakshi, and P.Indumathi, "Joint Time Frequency Channel Estimation in MIMO-OFDM Using Firefly Heuristic", in International Conference on Emerging Multidisciplinary Research and Computational Intelligence (ICEMRCI-2016), December 2016, SRKR Engineering College, Andhra Pradesh.

- S.Sandhya Rega, D.Sudha, M.Vaidheeshwary, S.Vikashini and R.Meenakshi, "Steganography Using FMO in H.264/AVC Compressed Video", TEQIP II Sponsored International Conference on Computational Intelligence (ICCI'2015, 7th and 8th April 2015, at Bharathidasan Institute of Technology, Tirucharapalli.

- Gifty Maria Vincent, Meenakshi.R, "Joint Sparse Channel Estimation and Data Detection in MIMO-OFDM Systems Using Bayesian Strategy":, International Conference on Engineer Technology and Science (ICETS '15)March 15, pp. 661-665.

- C.Paranitharan and R.Meenakshi, ''Bit Interleaving Coder Multiple Beam forming in OFDM MIMO', 6th National Conference on Signal Processing Communications and VLSI Design (NCSCV '14), May 2014, Anna University Regional Centre, Coimbatore & May 2014.

- R.ArunKumar Shadamarshan and R.Meenakshi, 'Measurement of Remaining Dentin Thickness in Dental X-Rays Prior to Conservative/Endodontic Treatment' May 2008, Anna University, Guindy.

NATIONAL CONFERENCE

- Ms.J.J.Kiran Berlene Marita, Mrs.R.Meenakshi "Information Hiding In H.264/Avc Using DWT" 2nd National Conference on Recent Trends in Computational Intelligence (NCRTCI'15) – 25th April 2015 Chennai

- Ms.S.SandhyaRega,Ms.D.Sudha,Ms.M.Vaidheeshwary,Ms.S.Vikashni,Mrs.R.Meenakshi "Steganography Using FMO in H.264/AVC Compressed Video" 4th National Conference AGNCON 2015, Agni College of Engineering, Chennai

- Mr.C.Paranitharan, Mrs.R.Meenakshi" Bit Interleaving Coder Multiple Beam forming in OFDM MIMO" 6th National Conference on Signal Processing, Communications and VLSI Design(NCSCV'14) – 9 & 10 May 2014

- Mr.C.Paranitharan, Mrs.R.Meenakshi" Bit Interleaving Coder Multiple Beam forming in OFDM MIMO" NCESCES at Coimbatore Institute of Technology – 27th February 2014 & 28th February 2014

- Ms.R.Meenakshi, " Measurement of Remaining Denton Thickness in Dental X-Rays prior to Conservative/Endodontic Treatment" 4th National Conference on Signals, Systems in Communication, 2008

ACHIEVEMENTS IN NPTEL COURSE

- Completed the NPTEL Online Certification course in Stress Management" in September 2018

- Completed the NPTEL Online Certification course in "Educational Leadership" with **Elite** grade in September 2018
- Completed the NPTEL Online Certification course in "Patent Drafting for Beginners" with **Elite** grade in March 2018
- Completed the NPTEL Online Certification course in "Effective Engineering Teaching in Practice" with **Elite** grade in March 2018
- Completed the NPTEL Online Certification course in "Bayesian/MMSE Estimation for Wireless Communications – MIMO/OFDM" in September 2016
- Completed the NPTEL Online Certification course in "Fundamentals of MIMO Wireless Communication" in September 2016
- Completed the NPTEL Online Certification course in "Estimation for Wireless Communications MIMO (or) OFDM Cellular and Sensor Networks" with **Elite** grade in March 2016
- Completed the NPTEL Online Certification course in "Introduction to Research" with **Elite** grade in February 2016

FDP ATTENDED

- Attended Faculty Development Programme on "Graphics and Multimedia" from 1st June 2015 to 5th June 2015 at Valliammai Engineering College, Kattankulathur-603 203.

- Attended Faculty Development Programme on "Artificial Intelligence through Industrial Visit" held on 10th February 2014 at Siruseri, Chennai

- Attended Faculty Development Programme on "iLearning course Java Fundamentals and Java Programming" on 07th September, 2013 at Valliammai Engineering College, Kattankulathur-603 203.

- Attended Faculty Development Programme on "New IT trends and Programming in Androids OS" on 31st August 2013 at Valliammai Engineering College, Kattankulathur-603 203.

- Attended the Faculty Development Programme on "Information Security and Cyber Forensics" on 24th April 2008 organized by Department of Computer Applications, Valliammai Engineering college, Kattankulathur.

- Attended the Faculty Development Programme on "Advanced Process Control and VLSI Design" on 3rd April 2008 organized by Department of Electronics and Instrumentation Engineering, Valliammai Engineering college, Kattankulathur.

WORKSHOPS ATTENDED

- Attended and successfully completed the two days workshop on "Certified Cyber Security Professional (CCSP)", on 23rd – 24th June 2018 at Rajarajeswari Medical College Campus (RRMCH), Bangalore.

- Attended the one day workshop on "Drafting for Patent" on 8th March 2018 at Valliammai Engineering College, Kattankulathur-603 203.

- Attended and successfully completed the two days workshop on "Certified Cyber Security Professional (CCSP)", on 24th– 25th February 2018 at Anna University, Guindy Campus,

Chennai.

- Attended the one day workshop on "Digital Transformation" on 22nd November 2017 at ECC Inc, Chennai.

- Attended the two days workshop on "Outcomes – Based Education" on 9th and 10th January 2016 at Dr.D.Y.Patil Institute of Engineering and Technology, Pimpri, Pune-18.

- Attended the one day workshop on "Next Generation Wireless Networks" on 19th January 2015 at Valliammai Engineering College, Kattankulathur-603 203.

- Attended and successfully completed the two days workshop on "Android APP Development", on 23rd – 24th August 2013 at SRM University, Kattankulathur -603 203.

- Participated in two day National workshop on "Optimization Techniques in Image Processing" on 3oth and 31st October 2009 at Anna University Coimbatore.

- Participated in the National Workshop on "Next Generation Wireless Technologies – Long Term Evolution (NGWT-LTE)" on 4th and 5th December 2009, conducted by Madras Institute of Technology, Chromepet.

OTHER EVENTS

- Attended "EMC Technology Day 2015" on 13th February 2015 at SRM University College, Kattankulathur-603 203.

- Participated in a two day event of "ICTACT Bridge 2014, The Largest Industry – Institute Interaction Event" on 26th and 27th February 2014, at Chennai Trade Centre, Chennai.

- Participated in the Information and Communication Science and Tech section of the 98th Indian Science Congress, at SRM University from 3rd January to 7th January, 2011.

- Participated in 4th National Conference on "Signals, Systems and Communication" on 8 – 9 May 2008, organized by Department of Electronics and Communication Engineering, College of Engineering campus, Anna University, Chennai.

OTHER COURSES COMPLETED

- Attended a course on "Discovery of The Master Teacher in You" on 26th and 27th May 2018 at Anna Centenary Library, Chennai.

- Participated in the tutorial sessions "Towards 4G Wireless Systems /WIMAX in International Conference on Recent Trend in Information Technology(ICRTIT 2011) on 3rd June atAnna University, Chennai.

- Attended a course on "Total Quality Management" on 12 – 17th December 2005 organized at College of Engineering, Guindy, Chennai.

- Attended a course on 'Electronic System Design Lab' from 9th to 11th January 2004 at College of Engineering, Guindy, Chennai.

- Attended the course "Digital Communication" during 24th – 29th November 2003 at SSN College of Engineering, Kalavakkam.

- Attended a course on "Re-Engineering Teaching Communication Skills" from 2nd to 6th June 2003

at College of Engineering, Guindy, Chennai.

- Attended a course in "Monochrome TV Servicing and Maintenance" on 1st September 1995 in the Institute of Electronics and Computers, Coimbatore

SHORT TERM COURSE COMPLETED

- Attended the ISTE – SRM Short-Term Training Programme on "RF Engineering for Wireless Networks" from 6th May 2013 to 11th May 2013 at Valliammai Engineering College, Kattankulathur. -603 203

- Attended a short course on "Workshop on Student Guidance and Counselling" conducted during 9th to 11th March 2004, by Technical Teacher's Training Institute, MHRD, Chennai.

- Attended a Training Program on "Analog, Digital and RF measurements" on 6th March 2002 at Thiagarajar College of Engineering, Madurai.

- Attended a short term training programme on "Communication Practice" held during 11th – 12th July 2003 organized by Department of Electronics and Communication Engineering, College of Engineering, Anna University, Guindy, Chennai.

SEMINAR ATTENDED

- Attended the one day seminar on "Methods of Teaching Engineering Design Using 'MAGE" on 5th January 2013 at VIT University, Chennai.

- Participated in One day Seminar on "Understanding Digital and Cellular Standards and their measurements'' on 3oth April 2010 organized by Department of Electronics Engineering, Madras Institute of Technology and Agilent Technologies.

RESEARCH AND DEVELOPMENT DETAILS

- Submitted a project proposal to Tamil Nadu State Council for Science and Technology under TNSCST Student Projects Scheme 2018-19 titled "Smart Firewall using Machine Learning" for a total cost Rs.10,000.

- Organized National Research Conference on "Emerging Technologies in Engineering (NRCETE-16)" at Valliammai Engineering College on 23.4.2016.

OTHER ACHIEVEMENTS

- Received appreciation for achieving high pass percentage in the subject "Medical Electronics" at Ramanujar Engineering College, Kolappakkam.

- Secured First Place in Paper presentation conducted in the National Level Technical Workshop; Feb 2 &3 at Shanmugha Arts and Science, Technology & Research Academy, Tanjore.

- Received certificate of merit for the achievement of 100% in the Anna University Results
  - CP9211 Modern Digital Communication - I Sem. - ME Communication Systems – 2012-13.
  - GE2025 Professional Ethics in Engineering – VIII Sem. - B.Tech. IT - 2013-14.
  - CS6004 Cyber Forensics - VIII Sem. - B.Tech. IT - 2016-17.

OTHER DETAILS

I. **Additional Qualification** **:** B.Sc, B.Ed., M.S(Edu.Mgt), MBA, PGDipVLSI

II. **No. of FDTP/FDP Attended** **: 06**

III. **No. of Short Term Training Programmes Attended: 04**

IV. **No. of Industrial Visit** **: 08**

V. **No. of Certificate Courses Attended** **: 07**

VI. **No. of Workshops Attended** **:09**

VII. **No. of Seminars Attended** **:02**

VIII. **No. of Events Attended** **:04**