


**Department of  
Electronics and Communication Engineering**

PeriyarNagar,Vallam,Thanjavur-613 403,Tamil Nadu India  
Phone +91 – 4362 264600, Fax +91– 4362 264660  
Email- [headece@pmu.edu](mailto:headece@pmu.edu), Web [www.pmu.edu](http://www.pmu.edu)



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Personal Details	
Name :	Dr.C.RAJANANDHINI
Designation :	ASSISTANT PROFESSOR(SG)
Experience :	17 Years
Area of specialization :	Computer and Communication
Date of Birth :	07/11/1979
Date of Joining :	11/01/2007
Email ID :	rajanandhini@pmu.edu
Contact Numbers :	8220662774



Educational Details				
S.No.	Degree	Branch/Specialization	Institution/University	Year
01.	B.E	ECE	PMCTW	2001
02.	M.E	Computer and Communication	PMCTW	2006
03.	Ph.D	ECE/Wireless Communication	PMIST	2022

Professional Society Memberships	
1. Indian Society of Technical Education	: Life Member
2. Computer Society of India	: Life Member

Book Publication Details
Published book title <i>Electronic Circuits-II</i> ISBN:978-93-5625-272-1 by Scientific International Publishing House 2022
Published book title <i>Digital System Design</i> 978-93-95191-31-9 by Deccan International Academic publishers 2023

Publication Details
<b>Journals:</b>
1. Paper Published in International Journal of computer Science Issues paper entitled “Automated Model To Save Energy In Hand Held Devices During Natural Calamities” Volume 9, Issue 3 , no3,May2012. ISSN (Online): 1694- 0814
2. Paper Published in International Journal of Advanced Computer Engineering and Communication Technology Paper entitled “Detecting Intrusion Attacks Caused By Stepping Stones in Interactive etworks” Vol-1 Issue: 1 : ISSN 2278 – 5140
3. Paper Published in International journal of Engineering research and science and technology Paper entitled “Beam forming For Interferences Reduction In Multiple Input Multiple Output(Mimo) Orthogonal Frequency Division Multiplexing (Ofdm) Wireless System” Vol. 3, No. 3, August 2014ISSN 2319-5991
4. Paper Published in Indian Journal of Scientific Research Paper entitled “An Improved Algorithm For Automatic Color Image Segmentation” Feb 2017 ISSN: 0976-2876 (Print)

- ISSN: 2250-0138 (Online).
5. Paper Published in International Journal of Scientific Research in Science, Engineering and Technology paper entitled “Train Track Monitoring cum Bridge Overload Detection System” Online ISSN : 2394-4099 | Print ISSN : 2395-1990 International UGC approved journal.
  6. Paper Published in International Journal Of Engineering Research & Technology paper entitled “IoT Based Myocardial Infarction Detection Using Heart Pulse Monitoring “ ISSN Online: 2278-018.April 2018
  7. Paper published in International Research Journal in Global Engineering and Sciences (IRJGES),Paper titled” A Switchable Near /Far- Field Reader Antenna For Radio Frequency Rfid Applications” Vol.3. Issue 4. pp. 60-68. Feb 2019.
  8. Paper published in” International Conference on Innovative Data Communication Technologies and Application, 019.Springer Lecture notes “Comparison on Carrier Frequency Offset Estimation in MB OFDM System. Volume 46,Pg.no (551-560),January 2020.(Scopus Indexed).
  9. Paper published in International Journal Of Scientific & Technology Research Evaluation Of The Performance Of UWB MBOFDM System Under Four Indoor Channel Models Of IEEE802.15.4a Under Noisy Channel Conditions. Volume 8, Issue 12, December 2019 Issn 2277-8616(Scopus and UGC Approved)
  10. Paper published entitled” ICA based estimation and compensation of carrier frequency offset for MBOFDM based UWB systems” Microprocessors and Microsystems, Volume 82, Jan 2021.ISSN: 0141-9331 (Scopus and SCIE Indexed) Impact Factor:1.525
  11. Paper published titled “Determining optimal solution in an automatic filling system with two units A and B using Big M method and Python tool” in NEUROQUANTOLOGY September 2022(Scopus)
  12. Paper published titled Coherent Data Transmission Using Multiplexing for a DWDM Communication System in IEEE October 2022(Scopus)

**Conferences:**

1. Paper published in International Conference on “Recent Trends in Computing, Communication and Networking Technologies Analysis of UWBMBOFDM communication system through IEEE802.15.4a channel models using Matlab Simulink”, Elsevier SSRN Digital Library, Oct.2019
2. Presented paper in National conference on Social, Mobile, Analytics and Cloud(NCSMAC) paper titled “Challenges in mobile computing” on 15 .09. 2016 at Periyar Maniammai University, Vallam.
3. Published paper in international conference on electrical, Information and communication technology(ICEICT-2015). paper titled “Companding transform for PAPR reduction of OFDM signals” on 06.03.2015 to 07.03.2015 at MAM college of engineering ,Trichy.
4. Participated National conference on efficient implementation of recent IT trends for rural development organised by the department of information technology, Periyar Maniammai University on 11.09.2013 to 12.09.2013
5. Paper presented in National Conference on Embedded systems, VLSI and Signal Processing Paper Titled” A Practical Method To Estimate Interference In Wireless Networks at Sri Lakshmi Ammal Engineering College, Chennai on 5.04. 2013.
6. Paper presented in National Conference on Contemporary Developments In Operations Management and Management Information Systems, Paper Titled “Assessing Information Security Implementation Level in organisation” at Periyar Maniammai University on 12<sup>th</sup> May 2012 .ISBN978-93-81583-76-0
7. Paper Published in International Conference on Computer Science and Engineering (ICCSE-2012), Paper Titled “Detecting Intrusion Attacks Caused By Stepping Stones in Interactive Networks” at Institute of Research and Development at Bhubaneswar on 27<sup>th</sup> June 2012.
8. Participated in the Two Day International Conference on Algebra and its Application at PMU on December 14 and 15, 2011.
9. Paper presented in National Conference on Emerging Technologies in Electronics systems, Paper Titled ATM Operating By Mobile System at Noorul Islam College Of Engineering 29<sup>th</sup> April 2006.
10. Paper published in National conference Nautical Border System Alert Using Gps And Gsm in conference Emerging Trends in Intelligent Systems and Smart Communication at Vel Tech High Tech Dr.Rangarajan Dr.Sakunthala Engineering College,Chennai-62 on 11-11-2022 to 12-11-2022
11. Paper Published in International Conference Smart Electronics and communication Technologies A Fuzzy Logic Technique Based Handover Decision Scheme For Mobility Management Entity Security Gateway Protocol With Wireless Communication Networks 13-03-2023 to 14-03-2023

### Research And Development

#### Patent-05

**Published patent on “Development of Mini cloud Server with Portable on Board Computer”.**

**Published patent on “Electric pole climbing Bot”.**

**Published patent on” Design and implementation of based multifunctional AGRIBOT using IOT”**

**Published patent on” Security Attacks Detection using Deep learning in wireless sensor network”.**

**Published patent on “Automatic Pearl Millet Seed Remover using Artificial Intelligence”**

### Faculty Development Programme

1. FDP on Data Communication and Networking at National Institute of Technical Teachers Training and Research, Chennai from 09-05-2022 to 13-05-2022
2. FDP on Wireless Communication at National Institute of Technical Teachers Training and Research, Chennai from 17-10-2022 to 21-10-2022
3. Short Term Training Programme Recent Advancements in VLSI Modelling and IC Design organized by Department of ECE, SRM Institute OF Science and technology, Tiruchirappalli Campus from 24-07-2023 to 30-07-2023
4. FDP on Fundamentals of Machine learning and Deep Learning at National Institute of Technical Teachers Training and Research, Chennai from 25 -09-2023 to 29-09-2023(NITTTR Kolkata)

**Training attended**

1. Attended three days training on Fundamentals of telecom from 22.07.2015 to 24 .07.2015
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**Article**

1. Published article in CSI Communications titled “ICT In Higher Education Of India” December 2015 issue
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**NPTEL**

1. MOOC/NPTEL/Online Course Digital Circuits Completed successfully 07.04.2023 to 30.10.2023