



SHRIMATI INDIRA GANDHI COLLEGE

(Affiliated to Bharathidasan University)

Nationally Accredited at 'A' Grade (4th Cycle) by NAAC | An ISO 9001 : 2015 Certified Institution
Tiruchirappalli - 620 002

Name : Ms.D.Meenakshi
Designation : Assistant Professor
Department : Physics
Qualification : M.sc., M.Phil., M.Tech.,UGC-NET
Experience : **Teaching: 15** **Research: Nil**
Area of Specialization(s) : Microprocessor and Microcontroller,Internet of Things,Wireless Communication
Email (Official ID) : meenakshi@sigc.edu
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Academic Qualifications

Degree	Branch	Institution / University Name	Year of Graduation
M.Tech.	Advanced Communication systems	Sastra Deemed to be University	APR-2013
M.Phil.	Electronics	Bharthidasan University	APR-2005
M.Sc.	Industrial Electronics	Seethalakshmi Ramaswami College,Bharthidasan University	APR-2002
B.Sc.	Industrial Electronics	Seethalakshmi Ramaswami College,Bharthidasan University	APR-2000

Research Publications (Indexed)

International Publications

1. PAPR reduction in OFDM using Partial Transmit Sequence (PTS) R Gayathri, V Sangeetha, S Prabha, D Meenakshi, NR Raajan International Journal of Engineering and Technology (IJET) 5 (2), 1428-1431, 2013
2. Performance analysis of DWT-OFDM and FFT-OFDM systems G Gowri, GU Maheswari, E Vishnupriya, S Prabha, D Meenakshi, ... STRUCTURE 2 (2), 6, 2013
3. Improved performance in OFDM systems by PAPR reduction techniques NR Raajan, S Prabha,
 - a. D Meenakshi 2013 International Conference on Computer Communication and Informatics, 1-4, 2013
4. Compare the performance analysis for FFT based MIMO-OFDM with DWT based MIMO-OFDM D Meenakshi, S Prabha, NR Raajan 2013 IEEE International Conference ON Emerging Trends in Computing ..., 2013
5. Literature Review of Image Compression Techniques D Meenakshi, VK Devi International Journal of Computer Science & Engineering Technology 6 (5 ...), 2015
6. Evaluation of BER for various fading channel in DWT based MIMO-OFDM system D Meenakshi, S Prabha, NR Raajan Int. J. Eng. Technol 5 (2), 1069-1075, 2013
7. Performance analysis of OFCDM, MC-CDMA and OFDM for wire—Free D Meenakshi, S Prabha, NR Raajan 2013 IEEE Conference on Information & Communication Technologies, 451-455, 2013
8. Developing an error logging framework for ruby on rails application using aop M Gomathy, VK Devi, D Meenakshi 2014 World Congress on Computing and Communication Technologies, 44-49, 2014
9. Enhanced concert in OFDM arrangement by PAPR declination method S Prabha, D Meenakshi, NR Raajan 2013 IEEE Conference on Information & Communication Technologies, 352-355, 2013

10. Estimation of DAP symbols using asynchronized OFDM system NR Raajan, D Meenakshi, S Prabha
 - a. 2013 International Conference on Computer Communication and Informatics,
11. Hybrid Clustering Algorithm For Segmentation Of Nano Particles D.Meenakshi Alochana Chakra Journal 9 (ISSN: 2231-3990,issue 5), Page No 7670 - 7675, 202020
12. SSL Based Cryptography Data Management in Private Cloud Computing” D.Meenakshi, V. Karthika Devi International Journal of Computer Sciences and Engineering 7 (Issue-2), 439-442, 2019
13. SEMANTIC WEB TECHNOLOGIES IN SSLBASED CRYPTOGRAPHY DATA MANAGEMENT
 - a. D.Meenakshi, T.Malathi International Journal of Engineering Science Invention Research ..., 2016
14. PAPR declination in OFDM using a resourceful method S Prabha, D Meenakshi, NR Raajan
 - a. 2013 International Conference on Communication and Signal Processing, 632-635, 2013
15. The International Conference on Communication, Computing and Information ..., 2012Channel Estimation of Pilot Carrier Symbols using Asynchronous MIMO-OFDM System NR Raajan, D Meenakshi, S Prabha
16. The International Conference on Interdisciplinary approaches in mathematics & physical sciences “Semiconductor Device Applications Using Biosensor” organized by Shrimati Indira Gandhi College, Trichy on 20.09.2023.
17. The published a paper entitled ”IoT Research and use in Weather Monitoring Systems ” in the Scopus Journal “The Board of Scienxt Journal of Physics and Space Science” , Volume 2, Issue 1 on June 2024.
18. The published abstracts in the conference proceedings () in the International conference on Emerging Trends in Mathematics & Physical Sciences ETMPS-2024 on 24th September organized by Shrimati Indira Gandhi College,Trichy.

Book Publications

1. Advances in Science, Technology and Innovation chapter title Nano fabrication process in Nano electronics. ISBN:978-93-93737-59-5, 2022.
2. Materials for Sustainable Energy storage at the Nano scale, chapter 7. Nano carbon Materials based on Solar cells, CRC press Taylor's and Francis. ISBN NUMBER 978-1-032-4054-8, DOI: 10.1201/9781003355755, May 2023.
3. Published a text book in SK Research Group of Companies – SKRGC Publication in the title of “Machine Learning in IoT” –International Standard Book Number (ISBN) – 978-93-6492-908-0 Likely Publication Date 25/10/2024 by the International Organization for Standardization

Presentations in Conference

1. The presented a paper on international conference on Recent Advancement in Spectroscopy “Acoustical Parameters And Infrared Spectroscopic Investigation Of Bio-Molecules” by National college in Association with ISPA
2. The Presented paper on International Conference on AI FOR COLLABORATIVE INNOVATION: BRIDGING ACADEMIA AND INDUSTRY, presented a paper with the title UTILITARIAN ARTIFICIAL INTELLIGENCE PRIVILEGES IN CYBER SECURITY: EXISTING AWARENESS EXPLORATION at Department of Management, Shrimati Indira Gandhi College, Trichy on 14.02.2025

Participation in Conference

International

1. The International Conference on Communication, Computing and Information ..., 2012 Channel Estimation of Pilot Carrier Symbols using Asynchronous MIMO-OFDM System NR Raajan, D Meenakshi, S Prabha
2. The International Conference on Interdisciplinary approaches in mathematics & physical sciences “Semiconductor Device Applications Using Biosensor” organized by Shrimati Indira Gandhi College, Trichy on 20.09.2023.

3. The published a paper entitled "IoT Research and use in Weather Monitoring Systems" in the Scopus Journal "The Board of Science Journal of Physics and Space Science", Volume 2, Issue 1 on June 2024.
4. The published abstracts in the conference proceedings () in the International conference on Emerging Trends in Mathematics & Physical Sciences ETMPS-2024 on 24th September organized by Shrimati Indira Gandhi College, Trichy.

Participation in Workshop

1. "Material Technology Advancement in Current Scenario -MTACS2020 ,one week workshop from 4th to 10th July 2020,Department of Physics, Sathyabama institute of Science & Technology-Chennai.
2. Organic Materials for Solar cell conducted on 3rd June 2020,Department of Science & humanities,Narasu's Sarathy Institute of Technology Salem.
3. "SOC-FPGA for High Performance Computing conducted on 6th June 2020, M.A.M College of Engineering.
4. "Advanced Material & Modern Applications conducted on 1&2nd July 2020,Department of Electronics & Communication Engineering ,SSN College of Engineering-Chennai
5. "Material Technology Advancement in Current Scenario -MTACS2020 ,one week workshop from 4th to 10th July 2020,Department of Physics, Sathyabama institute of Science & Technology-Chennai.
6. Participated in National workshop Intellectual property rights organized by the Department of Physics ,SRM TRP Engineering college Trichy on April 25th 2025

Participation in Orientation Programme / Short Term Courses

19/2/2024 - 28/2/2024 MM- **TTP NEP Orientation and Sensitization Program** on UGC-Malaviya Mission Teacher Training Centre at Bharathidasan University

Participation in Faculty Development Programme

1. Participated online FDP on “Physics of Materials”, organized by Department of Physics at Jain to be Deemed University, 28.5.2022 to 30.5.2022
2. Participated in five days Virtual Faculty Development Programme on”Positive Aspects of Teaching Practices” held on 20.2.2023 to 24.2.2023,organized by IQAC ,Theivanai ammal college for women , Villupuram.
3. Participated in Seven days International level Virtual Faculty Development Programme on” The Power of Positivity Approach in Teaching& Learning System of Culutural Transformation” held on 19.9.2023 to 26.9.2023,organized by Department of Commerce ,Hindustan college of Arts & Science, Coimbiatore.
4. Participated in Seven days International level Virtual Faculty Development Programme on” From Research to Publications” held on 4.9.2023 to 11.9.2023,organized by Department of Commerce ,Adhiyaman Arts & Science College for women, Salem.
5. 1/4/2024 - 5/4/2024 FDP Redefining Research Skills: Enriching Research and Publications from Shrimati Indira Gandhi College, Trichy

Member in BoS

- Member of Board of Studies at Seethalakshmi Ramaswamy College for Women ,Trichy from 2025 onwards.