Faculty Profile



Dr. Resmi R Nair
Professor – CSE

HIGHLIGHTS:

- Number of Journal Publications:30
- H-Index:5
- Project Funding Received: Nil
- Patents Published:8
- Patents Granted:1

PROFESSIONAL LINKS:

- Scopus ID: 57206682826
- Scopus Link: Nair, Resmi R. - Author details - Scopus Preview
- Google Scholar ID: Resmi R Nair - Google Scholar
- Anna University Faculty ID: 2670931985
- AICTE Faculty ID:1-7492355718
- Anna University Supervisor ID: 4190016
- LinkedIn: (99+) RESMI R NAIR | LinkedIn

PROFESSIONAL BACKGROUND:

- Teaching Experience till date: 14 Years
- Industrial Experience: nil

AREA OF SPECIALIZATION:

- Digital Image Processing
- VLSI Design
- Machine Learning
- Deep Learning

Ph.Ds GUIDING:

- **Full Time Scholars: 01**
- **Part Time Scholars : 05**

PATENTS PUBLISHED/GRANTED:

- "AI-based adaptive irrigation and fertilizer dispensing machine" 202641079377 A, Published: 03/07/2026.
- "IoT-enabled cooling tower water management system" 202641075975 A, Publication date: 26/06/2026
- "Machine learning based security device for cloud computing" Design No. 458419-001, Registered: 11/05/2025.
- "AI-ML-IoT integrated framework for reinforcement learning-based optimization of distributed energy resources in smart grids" 202541059749 A, Published: 04/07/2025.
- "Smart Wearable IoT Device for Continuous Cardiovascular Health Monitoring" 202541033659 A, Published: 02/05/2025.
- "Real-Time Voice-Activated Humanoid Information Assistant", 202441071360 A, Published : 04/10/2024
- "Development of device for recognising speech from an audio signal", 202241027259 A, Published, 2022.
- "A system based on three dimensional thermal imaging and image processing for analysing dermatological disease and disorder, 202141055032, Published, 2021
- "Automated Enhanced E-Learning System for Engineering Students using IoT", 2020104354, Granted, 2020.

COURSES CERTIFIED:

- AICTE Quality Improvement Programme (QIP) in Artificial Intelligence & Data Science at IIIT Kottayam
- NPTEL Online Certification – NBA Accreditation and Teaching and Learning in Engineering (NATE) – Elite + Silver – Topper 5%.
- NPTEL Online Certification – Hardware Modelling using Verilog– Elite.
- NPTEL Online Certification – Digital VLSI Testing – Elite + Silver – Topper 5%.

ACHIEVEMENTS AND AWARDS:

- Secured 2nd rank in the cohort with a CGPA of 9.2 in the AICTE Quality Improvement Programme (QIP) in Artificial Intelligence and Data Science conducted by IIIT Kottayam (July–December 2025).
- **YOUNG RESEARCHER AWARD 2022** by Institute of Scholars.

- **SUMAN SHARMA AWARD** for securing the second highest marks in aggregate amongst the women candidates across the country in AMIE Section A (non–diploma) examination held by IEI (India) in SUMMER 2005.

CONFERENCES/SEMINARS/WORKSHOPS ATTENDED:

1. "Digital VLSI Design and FPGA and Testability", 5 days FDP organized by ICT Academy in association with MeitY at Saveetha Engineering College from 24/11/2025 to 28/11/2025.
2. "Digital VLSI Testing", NPTEL-AICTE FDP attended during Jan-April 2025.
3. "VLSI Testing and Design for Testability", 6 days faculty empowerment programme organized by MIT, Anna University from 10.02.2025 to 15.02.2025.
4. "Various Facets of Technology in Healthcare", 5 days IEE sponsored FDP organized by Saveetha Engineering College from 24.02.2025 to 28.02.2025.
5. "Hardware Modeling Using Verilog", NPTEL-AICTE FDP attended during July-Sep 2023.
6. "Research Tools", two weeks international FDP organized by Easwari Engineering College from 03.07.2023 to 14.07.2023.
7. "ChatGPT & AI Tools for Educators", 7 Day National Level Online Faculty Development Program organised by Marian College Kuttikkanam (Autonomous) in association with The Kerala State Higher Education Council from 14 June to 21 June 2023.
8. "Research Methodology" workshop by Bharath Institute of Higher Education and Research, India & Aurel Vlaicu University of Arad, Romania, 21.2.2022 to 25.02.2022
9. "Recent trends in AI, IoT and Block chain" FDP by Easwari Engineering College, 9.2.2022 to 18.2.2022.
10. "Advanced Pedagogy using Smart Tools", FDP by KLN College of Engineering, 21.01.2022 to 28.01.2022
11. "Machine Learning in Bio-medical Engineering", AICTE-ISTE sponsored induction/refresher programme, 01.12.21 TO 07.12.21
12. "Research Challenges in Cognetive Radio Networks", FDP by Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai, 20.09.2021-25.09.2021.
13. "Trends and Challenges in Machine Learning & Deep Learning", FDP, Easwari Engineering College , 24.05.2021 to 29.05.2021.
14. "Blockchain with cyber security", FDP by Easwari Engineering College, 24.05.2021 to 29.05.2021.

15. “Trends and Challenges in Power Converters and Control”, FDP by Anna University, 04.05.2021 to 18.05.2021
16. “Two weeks International Workshop on Data Science”, Department of IT, Easwari Engineering College, 19-04-2021 - 29-04-2021.
17. “Digital Transformation-An introductory course" FDP by EIE, Kakatiya Institute of Technology and Science in Association with CLOUD CHIP TECNOLOGIES Pvt. Ltd, 10.05.2020 – 14.05.2020.
18. ‘Transmission Lines and RF Systems – EC8651’, Anna University sponsored FDTP, Panimalar Institute of Technology, Chennai, 18.11.2019 – 23.11.2019.
19. “Feature Extraction, Pattern Recognition and Classification Techniques for Digital Images using MATLAB®” 20-hour online course by SCS-India conducted during 9th December 2017 -31st January 2018.
20. “Digital Image Processing & Pattern Recognition” MATLAB® Workshop by SCS-India at T.Nagar, Chennai held on 29-30, November 2014.
21. “Signals and Systems” 2 weeks ISTE sponsored workshop by IIT Kharagpur at Rajalakshmi Engineering College, Chennai, held during 02-12 January 2014.
22. “Faculty Development Programme” by TalentSprint at Vel Tech in July 2013.
23. “Low Power VLSI Design” one day faculty development programme at Vel Tech High Tech held on October 13, 2012.
24. “Digital Image Processing using MATLAB” 2 days workshop at MIT, Chennai held on 23-24 June 2012.
25. “Implementation of Embedded System Design using LABVIEW”, 2 days workshop at at Prathyusha Institute of Technology and Management, Chennai during May 9-10, 2012.
26. “Bounded and Unbounded Communication” 2 weeks AICTE sponsored staff development programme at Prathyusha Institute of Technology and Management, Chennai held from 23.11.09 to 06.12.09.
27. “Exploring MATLAB and its Tools” 3 days training programme at Prathyusha Institute of Technology and Management in association with Raghuram Associates, Chennai held during September 5-7, 2009.

PROFESSIONAL MEMBERSHIPS:

- Life Member of Institution of Electronics and Telecommunication Engineers (IETE)
- Life Member of Indian Society for Technical Education (ISTE)