Faculty Profile

Dr. R. UMAMAHESWARI
ASSOCIATE PROFESSOR/ECE
Date of Joining: 11.06.2025

HIGHLIGHTS

- Number of Journal Publications: 25
- H-Index: 2
- Patents Published: 02
- Patents Granted: 01

PROFESSIONAL LINKS:

- Scopus ID: 27667880600

- Scopus Link: https://www.scopus.com/authid/detail.uri?authorId=27667880600

- Google Scholar ID: https://scholar.google.com/citations?user=tfDBRbAAAAAJ&hl=en

- Anna University Faculty ID: 4128353 (COE)

- Anna University Faculty ID: 268151

- AICTE Faculty ID: 1-3365371663

- Anna University Supervisor ID: 3740009

- LinkedIn: https://www.linkedin.com/in/umamaheswari-r-577b15136/

PROFESSIONAL BACKGROUND:

- Teaching Experience till date: 15 Year
- Industrial Experience: 1 Year

AREA OF SPECIALIZATION:

- Reconfigurable Architecture
- VLSI signal Processing
- Image Processing

Ph.Ds. AWARDED WITH DETAILS: NIL

Ph.Ds. GUIDING:

- **Full Time Scholars: NIL**
- **Part Time Scholars: Nil**

PATENTS PUBLISHED/GRANTED:
PATENTS PUBLISHED:
Title: Utilizing Machine Learning to Identify Target Objects in the Context of Animals, Application No: 202341076247 dated 08/11/2023
PATENTS GRANTED:
Title: Monolithically Integrated Thin - Film Solar Cell Charger for Electronic Gadgets, Patent number: 2020101896, eight years from 19 August 2020, Certificate of Grant-Innovation Patent, Australian Government.

COURSES CERTIFIED:
NITTTR Course Module
• Module 1- Orientation towards technical education and curriculum aspects- 8 weeks- Feb'21

• Module 2-Professional ethics and sustainability -8 weeks- Feb'21

• Module 3- Communication skills, modes and knowledge dissemination- 8 weeks- Feb'22
NPTEL Course Certifications
• NPTEL CERTFIED COURSE on Research Methodology Course during October 2023.

• NPTEL CERTFIED COURSE on Body Language- Key to Professional Course during July 2019.

• NPTEL CERTFIED COURSE on Digital Electronics during Digital Circuits July-October 2018.

• NPTEL certified course on Outcome based pedagogic principles for effective teaching during August 2017.

• NPTEL certified course on Educational Leadership during July-September 2017.

• NPTEL certified course on Computer Architecture during January-April 2017.

BOOK PUBLICATIONS

- Editor for a book titled "Machine Learning and IoT for Intelligent Systems and Smart Applications" in CRC Press, Taylor and Francis, 2021
- Dr. S. Visalakshi and **Dr. R. Umamaheswari** authored a text book on Basic Electrical,
- Electronics, Measurements and Instrumentation Engineering-Volume 1. ISBN No: 978-81935988-5-6 (R2017 B.E-ECE students)
- Dr. S. Visalakshi and **Dr. R. Umamaheswari** authored a text book on Basic Electrical, Electronics and Measurements Engineering, ISBN No: 978-81-935988-9-4 (R2017 B.E-CSE and IT students)
- Dr. S. Visalakshi and **Dr. R. Umamaheswari** authored a text book on Basic Electrical, Electronics and Instrumentation Engineering, ISBN No: 978-81-935988-9-3 (R2017 B.E. Mechanical students)

CONFERENCES/SEMINARS/FDP/WORKSHOPS ATTENDED:

- Co-ordinator for Anna University Sponsored FDP on 4G/5G Communication systems from 29.01.24 to 03.02.24 (One Week)
- Certified FDP course on Universal Human Values organized by AICTE – 22.03.21 to 26.03.21
  (One week)
- Certified AICTE- ATAL FDP course on IIOT – 07.06.21 to 11.06.21 (One week) Training Programme
- 10.05.2021 to 15.05.2021 (One week)
- Participated in Online training program sponsored by NITTTR IOT with MATLAB on 27.05.2021
- Certified AICTE sponsored STTP – Application of Artificial Intelligence – 18.01.2021 to 23.01.2021 (One week)

PROFESSIONAL MEMBERSHIPS:

- Life Member of THE INDIAN SOCIETY FOR TECHNICAL EDUCATION (ISTE) (LM 119328)
- Life Member of Computer Society of India- I1505773
- Life Member for IAENG (International Association of Engineers) –Membership Number: 189062
- Annual Member of THE INDIAN SCIENCE CONGRESS ASSOCIATION (Membership No: A5916)