



Dr. N.G.P. ARTS AND SCIENCE COLLEGE

(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)
Approved by Government of Tamil Nadu & Accredited by NAAC with 'A++' Grade (3rd Cycle - 3.64 CGPA)
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Anusandhan
National
Research
Foundation

ANRF Sponsored

TWO DAYS NATIONAL WORKSHOP ON

Next-Generation Internet of Things (IoT): Design of Efficient Low-Power Edge Intelligence Applications for Sustainable Environments

Organized by

Department of Computer Science with Cognitive Systems

November 04-05, 2026

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Dr. P. Esther Jebarani

Asso. Prof., CS with Cognitive Systems

Ms. P. Bhavya

Asst. Prof., CS with Cognitive Systems

Who Can Participate?

- » Faculty
- » Researchers
- » Ph.D. Scholars
- » PG & UG Students
- » Industry Professionals

About the Workshop

This workshop aims to share academic and research knowledge with researchers, faculty members, students, and industry professionals, while emphasizing its practical applications in addressing societal and environmental challenges. The workshop will explore design methodologies and innovative approaches for developing sustainable IoT components and systems. Participants will gain exposure to advanced Tiny AI/ML models, sensor technologies, and real-time implementation techniques. The workshop will focus on the design and development of energy-efficient, environmentally friendly components and edge intelligence applications optimized for sustainable solutions in India.

Objectives

- Create a platform for young researchers and faculty to share knowledge on edge intelligence and sustainable environments.
- Introduce low-power IoT, embedded systems, 5G & Tiny AI/ML technologies.
- Develop theoretical and practical skills in IoT and edge intelligence applications.
- Provide hands-on training in IoT devices, sensors, Tiny AI/ML models, and real-time applications.
- Critically evaluate the impact of IoT and edge intelligence technologies on smart and sustainable environments.

Workshop Highlights

- IoT Edge Intelligent Systems
- Design Lifecycle of Edge Intelligence Systems
- Communication Protocols for Low-Power IoT
- Tiny AI/ML for Resource Constrained Devices
- Development of Energy Efficient Edge Intelligence Applications for Sustainable Environments
- Low-Power Embedded Systems for IoT
- Industry Perspectives and Emerging Research Opportunities
- 5G Networks for Low-Power IoT
- Optimized Processors for Machine Learning and Edge Intelligent
- Practical Insights into IoT, Sensor, and Edge AI Design

Keynote Speakers



Dr. M. Sabarimalai Manikandan

Associate Professor
IIT Palakkad, Kerala, India



Dr. Srinivasan Aruchamy

Associate Professor
National Institute of Technology
Puducherry, India



Mr. K. Sathiyam

Technical Lead
Bosch Global Software Technologies
Coimbatore, India



Dr. V Anantha Narayanan

Professor
Sri Eshwar College of Engineering
Coimbatore, India



Dr. Santhanam Raghavan

Assistant Professor
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Registration Details



REGISTRATION FEE
Rs. 400/-



LAST DATE FOR REGISTRATION
01.11.2026



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