RAMCO INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi & Affiliated to Anna University

Accredited by NAAC With Grade A+ & An ISO 9001: 2015 Certified Institution

NBA Accredited UG Programs: CSE, Civil, EEE, ECE and MECH

A TWO DAY NATIONAL LEVEL ONLINE SEMINAR ON

ROBOTICS AND INTERNET OF THINGS (IORT)
[THE SMART INTEGRATION]

06-07 FEBRUARY 2026

TIME: 7.00 PM TO 9.00PM

ORGANIZED BY,

AUTOMATION AND ROBOTICS CLUB
IN ASSOCIATION WITH
RIT - IE(I) CHAPTER

RegistrationLink :
https://forms.gle/5nggnvzwGcTzGdge6

CALL US:
9677157244, 8778546723, 6374656051

arc@ritrjpm.ac.in

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ABOUT THE INSTITUTION

Ramco Institute of Technology (RIT), established in the year 2013, is an AICTE-approved institution affiliated with Anna University, Chennai, accredited by NAAC with an A+ grade, and certified by the ISO 9001:2015. Our visionary goal is to provide top-notch engineering education that meets international standards, all under the dynamic and visionary leadership of our Chairman Shri P. R. Venketrama Raja, Ramco Groups of Industries. Out of 9 UG programs, RIT offers 05 NBA-accredited UG programs.The institute offers a wide range of engineering disciplines with a focus on innovative teaching methodologies, industry engagement, entrepreneurship and higher education. The institute aims to equip students with technical expertise, creativity, and an entrepreneurial mindset to contribute effectively to the nation's growth. There are many professional societies and clubs in an institution, like ISTE, IE(I), ACM, CSI, ARC, and others, that help students improve in their careers.

ABOUT THE ARC CLUB

The Automation and Robotics Club is a vibrant platform that brings together students passionate about technology, innovation, and futuristic engineering. The club focuses on developing knowledge and practical skills in robotics, automation, artificial intelligence, and embedded systems, enabling students to transform their creative ideas into working prototypes and real-world solutions.

The club acts as a hub for experimentation, collaboration, and knowledge sharing, where students from diverse disciplines come together to explore cutting-edge technologies. It provides opportunities to work on multidisciplinary projects ranging from autonomous robots, drones, and industrial automation to smart IoT-enabled systems.

With a mission to prepare students for the rapidly advancing era of Industry 5.0, the club not only trains members in technical domains but also instills teamwork, leadership, critical thinking, and problem-solving abilities. Regular workshops, seminars, competitions, and industry interactions are organized to give students hands-on experience and exposure to global technological trends.

ABOUT THE PROGRAM

The seminar on "Robotics and Internet of Things (IoRT): The Smart Integration" aims to explore the transformative convergence of Robotics and the Internet of Things (IoT), which is redefining automation, connectivity, and intelligent decision-making. IoRT represents a new paradigm where robots are not only capable of performing tasks but are also interconnected, data-driven, and adaptive to dynamic environments.

This seminar will provide participants with insights into:

- Fundamentals of IoRT and its evolution.
- The role of AI, machine learning, and cloud computing in empowering smart robotics.
- Real-world applications in manufacturing, healthcare, agriculture, defense, and smart cities.
- Future opportunities, challenges, and ethical considerations in deploying IoRT systems.

OBJECTIVE OF THE PROGRAM

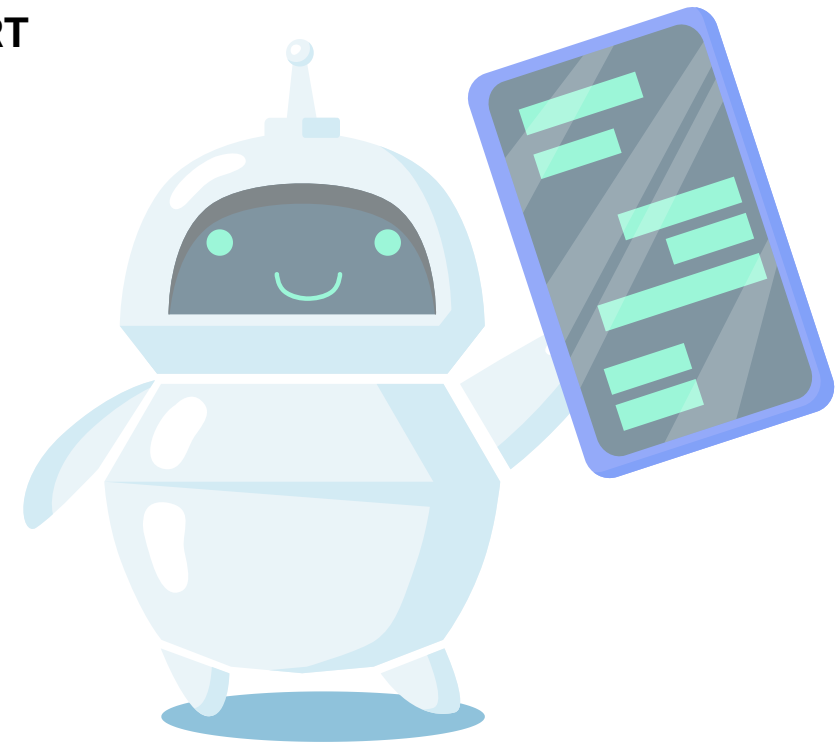
- To introduce the concept of IoRT – explain how Robotics and IoT converge to create intelligent, connected, and adaptive systems.
- To provide insights into emerging technologies – highlight the role of AI, machine learning, cloud computing, and big data in enabling IoRT.
- To explore real-world applications – showcase how IoRT is transforming manufacturing, healthcare, agriculture, defense, logistics, and smart cities.
- To bridge theory with practice – demonstrate practical case studies, prototypes, and industrial use cases of IoRT-based solutions.
- To promote research and innovation – encourage participants to take up academic projects, research initiatives, and entrepreneurial ventures in IoRT.
- To prepare students for Industry 4.0 – equip learners with the knowledge of automation, connectivity, and intelligent decision-making systems for future careers.

EXPECTED OUTCOME OF THE PROGRAM

- **Describe the evolution, architecture, and functional layers of IoRT with clarity and technical accuracy.**
- **Analyze the integration of AI, ML, and data analytics techniques for intelligent robotic decision-making.**
- **Evaluate the effectiveness of Edge, Fog, and Cloud Computing models in IoRT applications through comparative analysis.**
- **Design and implement an IoRT prototype using sensors, embedded systems, and communication networks to demonstrate real-time data processing and control.**

TOPICS TO BE COVERED

- **Evolution from IoT and Robotics to IoRT**
- **IoRT Ecosystem and Layers (Perception, Network, Application)**
- **Artificial Intelligence (AI) and Machine Learning (ML)**
- **Edge Computing, Cloud Computing, and Fog Computing in IoRT**
- **Data Analytics and Big Data in IoRT Decision-Making**
- **Embedded Systems and Microcontrollers for IoRT**
- **Sensor Fusion and Data Acquisition Systems**
- **Applications of IoRT and Swarm Robotics**



RESOURCE PERSONS

Dr. P. Manikandan,
Chief technology officer,
Codenplay Robotics, Bengaluru.

Mr. D. Senthil Kumar,
Senior Instructor- Industrial Robotics
TATA Indian Institute of Skills, Ahamedabad.

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ORGANIZING COMMITTEE

CHIEF PATRON

Prof. Dr. L . Ganesan, Principal.

CO- PATRON

Prof. Dr. S. Rajakarunakaran, Vice Principal.

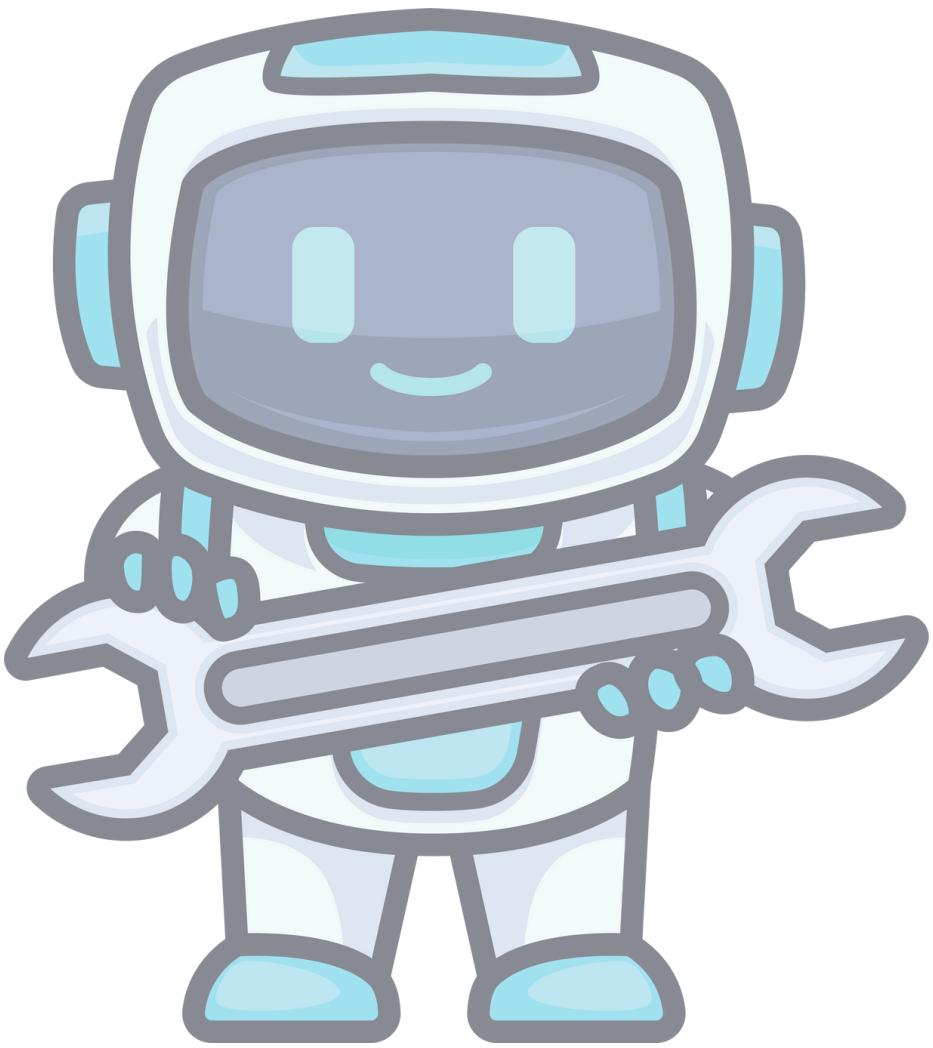
CONVENOR

Dr. M. Gomathy Nayagam,Head / CSBS, RIT- Co-Curricular Coordinator.

FACULTY COORDINATOR(S)

Dr. K. Palraj, Associate Professor / IT

Mr. S. Valai Ganesh, Assistant Professor (SG) / Mech



STUDENTS CO-ORDINATORS

Organizing Secretary

Mr. R. Darshan, IV year ECE
Ms. S. Seetha Lakshmi, III year ECE
Mr. P. Gopi, III Year IT
Mr. B. Shanmugapandi, III Year Mech
Mr. M. Manoj Kumar, III year CSBS
Ms. A. Varuna Shree, II Year IT
Mr. C. Vignesh, III Year Mech

Event Manager(s)

Ms. K. Maheswari, III Year ECE
Mr. J. M. Thiraviyakumar, II Year IT
Ms. M. Dhanya Sankari, II Year IT
Ms. M. Vaishali, II Year ECE
Mr. K. Giridharan, III Year MECH

Design and Media Lead

Mr. P. Chandru, III Year MECH
Ms. P. Suchitra, III Year ECE
Mr. D. Arudayar Arun, II Year IT

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GUIDELINES TO REGISTER

- **Eligible participants for Industry and Engineers from R&D Labs /Faculties from Academic Institution / Research Scholars / PG students/ UG Students from all the departments/ Branches/ Diploma Students.**
- **Registration fee for External Participants:**
  Non IE(I) members : Rs.150
  IE(I) Members : Rs.100
- **Pay your Registration Fee Using Payment QR.**
- **Fill online registration form.**
- **Upload the Payment Screenshot and Softcopy of IE(I) Membership card (if your are IE(I) member)**
- **Meeting link will be communicated to the registered candidates through their respective email.**
- **Assessment on topics covered will also be done through online mode. Based on the marked scored you will earn certificate like Gold, Silver, Elite.**

DATES TO REMEMBER

The last date for receiving applications is 04.02.2026

Intimation of selection through e-mail by 05.02.2026

REGISTRATION

Registration Link :
https://forms.gle/73JK6QMrsLoSuiuJA

UPI ID: valaiganesh@okaxis

PAYMENT QR

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