



RAMCO INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi & Affiliated to Anna University

An ISO 9001: 2015 Certified Institution

NAAC Accredited Institution

Automation and Robotics Club
Academic Year 2025 – 2026 (Even Semester)

Details of Programme Organized

Sl. No.	Contents	Details
01.	Title of the programme	Two-Day National Level Online Seminar on “Robotics and Internet of Things (IoRT): The Smart Integration”
02.	Programme Theme	IPR / Innovation / Entrepreneurship / Product Development / Others (please specify)
03.	Programme Type	Workshop / Webinar / Seminar / FDP / STTP / Motivational Speech / Leadership Talk / Field Visit / Other (please specify)
04.	Details of resource person	1. Mr. P. Manikandan, Solution Architect, CodenPlay Robotics, Bengaluru 2. Mr. Senthil Kumar Dhayalrajan , Senior Instructor – Industrial Robotics, Tata Indian Institute of Skills, Ahmedabad
05.	Mode & Venue / Platform	Online- Google Meet
06.	Date & Duration	06.02.2026-07.02.2026 @ 07.00PM to 09.00PM IST
07.	No. of Student Participants	56
08.	No. of Faculty Participants	06
09.	No. of External Participants	60
10.	Expenditure amount (if any)	Rs. 8,000 (honorarium to resource persons- Rs.4,000 each)
11.	Social Media URL	Pre-event: https://www.facebook.com/share/p/1DCRKZtvBG/ Post-event: https://www.facebook.com/share/p/1FMvewW65f/
12.	Video URL (if any)	https://drive.google.com/file/d/1kZOZGLdFAgiEKNB-cb5aTHY8EWmp0O63/view?usp=sharing

13. Objective of the Programme:

- ✓ To provide participants with a **comprehensive understanding of the integration of Robotics and Internet of Things (IoRT)** in modern industrial applications.
- ✓ To create awareness about **Industry 4.0 concepts**, digital manufacturing, and smart automation systems used in contemporary industries.
- ✓ To expose students, faculty members, and research scholars to **real-time industrial practices and emerging technologies** in robotics and automation.
- ✓ To offer **hands-on exposure to industrial tools and simulators**, including IoT platforms and industrial robot simulation environments.
- ✓ To bridge the **gap between academia and industry** by interacting with experienced industry professionals and practitioners.
- ✓ To enhance **technical competency and employability skills** of participants in the domains of automation, robotics, and smart manufacturing.
- ✓ To encourage participants to pursue **research, innovation, and career opportunities** in Robotics, IoT, and allied interdisciplinary fields.
- ✓ To promote **outcome-based learning** through structured sessions, feedback mechanisms, and post-assessment evaluation.

14. Detail description of the activity:

The **Automation and Robotics Club (ARC)**, in association with the **IE(I) Chapter**, Ramco Institute of Technology, Rajapalayam, successfully organized a **Two Day National Level Online Seminar** titled **“Robotics and Internet of Things (IoRT): The Smart Integration”** on **06th and 07th February 2026**. The program was conducted in online mode with the objective of enhancing participants’ knowledge and skills in the rapidly evolving domains of **Robotics, Internet of Things (IoT), and Industry 4.0**.

The seminar was designed to provide a balanced blend of **theoretical concepts, industrial insights, and practical exposure**. Participants included **faculty members, research scholars, undergraduate and postgraduate students, diploma students, and industry professionals** from various institutions across the country.

Day 1 of the program focused on **Industry 4.0 and its applications**. The session was handled by **Mr. P. Manikandan, Solution Architect, Codenplay Robotics, Bengaluru**. The resource person explained the fundamentals of Industry 4.0, smart manufacturing systems, cyber-physical systems, IoT-enabled automation, data-driven decision-making, and their real-time industrial applications. The session also included demonstrations and discussions on IoT tools and platforms, enabling participants to understand how intelligent and connected systems are implemented in modern industries. Interactive question-and-answer sessions encouraged active participation and knowledge exchange.

Day 2 of the seminar emphasized **Industrial Robotics and robot simulation techniques**. The session was delivered by **Mr. D. Senthil Kumar, Senior Instructor – Industrial Robotics, TATA Indian Institute of Skills, Ahmedabad**. The resource person introduced the concepts of industrial robots, robot kinematics, programming basics, and safety considerations. A hands-on demonstration using the **UR Robot Simulator** was conducted, where participants were guided through robot modeling, simulation, and basic operational

tasks. This session provided valuable industry-oriented exposure and helped participants understand the practical aspects of robot simulation and automation workflows.

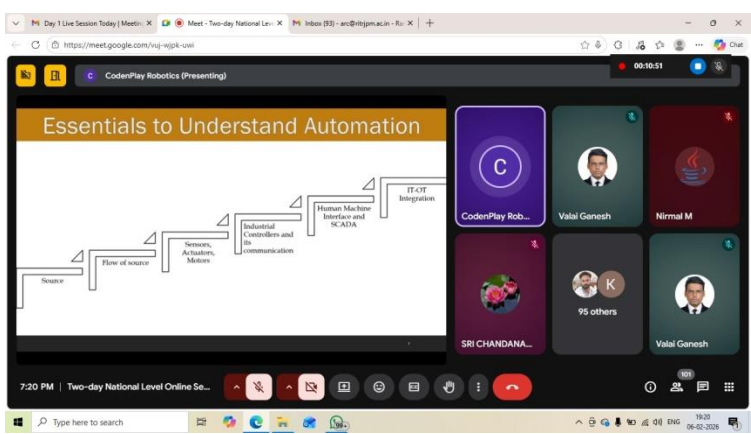
To ensure **outcome-based learning**, participants were required to submit **daily feedback forms** and appear for a **post-assessment test** consisting of multiple-choice questions. The assessment evaluated participants' understanding of the concepts covered during both days. Based on their performance, participants were awarded **Elite, Silver, and Gold appreciation tags**, promoting motivation and academic excellence. Top performers were also offered **internship opportunities in Industrial Robots and Cobots** at Ramco Institute of Technology.

Overall, the program successfully achieved its objectives by fostering **technical awareness, practical exposure, and industry interaction**. The seminar strengthened the collaboration between academia and industry, enhanced participants' employability skills, and contributed significantly to capacity building in the areas of **Robotics, IoT, and smart automation technologies**.

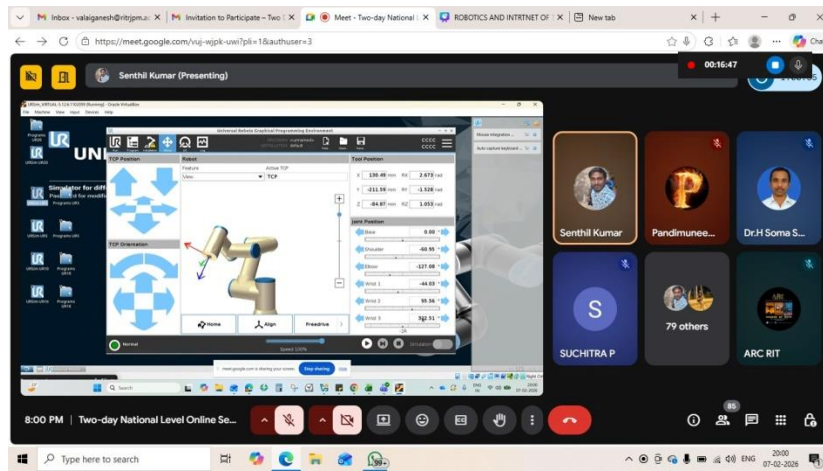
15. Banner / flyer of the programme:



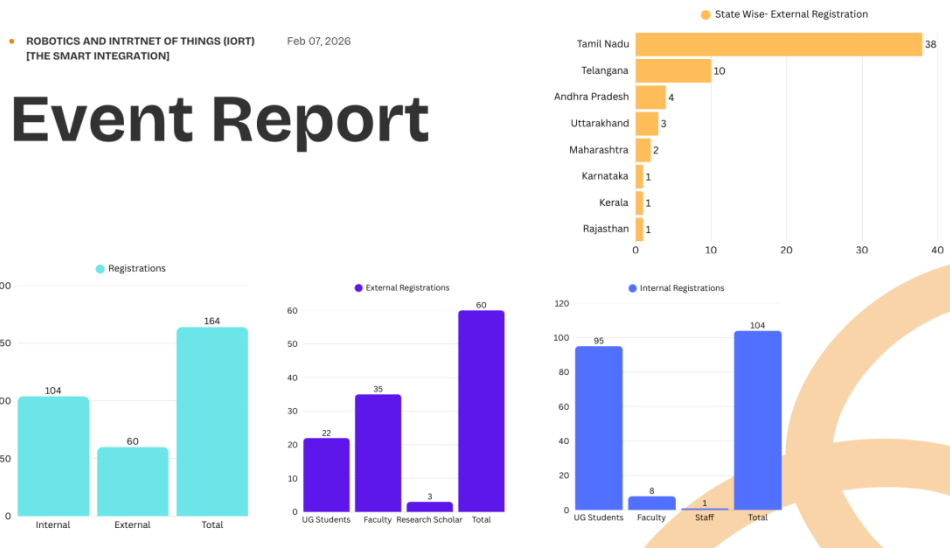
16. Programme Photographs: (Two Photographs)



Day 1 Glimpses



Day 2 Glimpses



Participants Statistics

Sabyam

Prepared by:

Dr. J. Neelgagan

Approved by



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AUTOMATION AND ROBOTICS CLUB

in association with IE(I) Chapter

Two Day National Level Online Seminar Robotics and Internet of Things (IoRT): The Smart Integration

Event Schedule

Day 1 – Schedule & Pre-requisites

Particulars	Details
Date & Time	06.02.2026 07:00 PM – 09:00 PM
Resource Person	Mr. P. Manikandan Solution Architect Codenplay Robotics, Bengaluru
Session Theme	Industry 4.0 and its Applications
Pre-requisites	1. Node RED: https://nodered.org/docs/getting-started/local 2. UA Expert: https://drive.google.com/drive/folders/1j8lkQkobAwtyM-YcPEwd3Rm6DW_Lr8m6?usp=sharing 3. CODESYS V3.5: https://drive.google.com/drive/folders/1LXpaLVU86E-t_cbsNOQI4RMIHs2YSgHz?usp=drive_link Install as Administrator Select Complete Installation

Day 2 – Schedule & Pre-requisites

Particulars	Details
Date & Time	07.02.2026 07:00 PM – 09:00 PM
Resource Person	Mr. D. Senthil Kumar Senior Instructor – Industrial Robotics TATA Indian Institute of Skills, Ahmedabad
Session Theme	Industrial Robotics Simulation using UR Simulator
Pre-requisite (Mandatory)	UR Simulator Software: https://drive.google.com/file/d/11DhNbJ2PPIEWJkBJISD2AZk5uaIDa7LZ/view?usp=sharing Download and extract the software. The remaining procedure will be explained live by the resource person during the session.



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Date: 07.02.2026

Appreciation Letter

We appreciate the efforts and promptness of **Mr. P. Manikandan, Solution Architect, Codenplay Robotics, Bengaluru** for his exemplary efforts in 2-day National Level online seminar on Robotics and Internet of Things (IoRT): The Smart Integration conducted by the Automation and Robotics Club in association with IE(I) Chapter on 06 February, 2026. He delivered the topics on Industry V4.0, IIoT and Factory Automation.

The feedbacks provided were above the Excellency. We appreciate & wish the continued effort in all your future endeavors also.


Faculty Coordinator(s)


Convener


Principal



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We appreciate the efforts and promptness of **Mr. D. Senthil Kumar, Senior Instructor – Industrial Robotics, TATA Indian Institute of Skills, Ahmedabad** for his exemplary efforts in 2-day National Level online seminar on Robotics and Internet of Things (IoRT): The Smart Integration conducted by the Automation and Robotics Club in association with IE(I) Chapter on 07 February, 2026. He delivered the topics on Industrial Robotics and Robot Simulation using UR Simulator.

The feedbacks provided were above the Excellency. We appreciate & wish the continued effort in all your future endeavors also.


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