



Rajarajeswari College of Engineering

(An Autonomous Institute, Affiliated Visvesvaraya Technological University, Belagavi,
Approved by AICTE, UGC &GoK, Accredited by ISO 9001-2015 Certified Institution)
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Department of Robotics and Automation

Faculty Skill Enhancement Activity

NAME OF THE DEPARTMENT: Department of Robotics and Automation

1. Type of Event : Webinar on Introduction to Robotics in Automation Studio 9.0

2. Date of the programme : Tuesday, 28th January 2025

3. Faculty member attended : Dr.M.Karthikeyan,
Dy. CoE and Professor
Department of Robotics and Automation
Rajarajeswari College of Engineering
Bengaluru 560074

4. Gained the knowledge on

1. Overview of Automation Studio 9.0:

- Introduction to the core features of Automation Studio 9.0, focusing on its role in simulating and designing automation systems.
- Highlight the integration of robotics for creating more advanced and realistic simulations.

2. Robotics and Automation Integration:

- How Robotics modules can be integrated into an automation environment for tasks like material handling, assembly, and more.
- The benefits of combining robotics with other automation components such as PLCs, sensors, and actuators.

3. Creating Robotic Simulations:

- Step-by-step demonstration on how to build and simulate robotic systems in Automation Studio.
- Showcasing tools and libraries available to design robots, including 3D simulation for real-world accuracy.

4. Programming and Controlling Robots:

- Introduction to the programming interfaces for robotics within the software.
- Discussing common control strategies, such as manual control, path programming, and task automation.

5. Applications and Use Cases:

- Real-world applications of robotics in automation, such as in manufacturing lines, packaging systems, and assembly.
- How Automation Studio helps design, test, and optimize these systems before physical implementation.
- This webinar would provide both an introduction to the tools and techniques involved in robotic simulation and practical applications of robotics in industrial automation.

Report prepared by Dr.M.Karthikeyan, Dy. CoE and Professor, R&A

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CERTIFICATE

PROUDLY PRESENTED TO

Dr Karthikeyan M

Introduction to Robotics in Automation Studio™ 9.0

Jan 28, 2025

Date of Completion

Automation Studio™ Webinar

Organizer

