

Course Title: Automation Handling System

Course Code: EEA 181

Course Background / Summary:

In modern manufacturing and logistics industries, the demand for efficient and precise material handling has led to the widespread adoption of Automatic Handling Systems. These systems encompass a variety of technologies, including robotics, conveyors, sensors, and control systems, to automate the movement, sorting, and distribution of materials and products. This course provides participants with a comprehensive understanding of Automatic Handling Systems, their design principles, and their integration into industrial processes.

Course Objectives:

- Understand the significance of Automatic Handling Systems in modern manufacturing and logistics.
- Learn about various sensors and control mechanisms used in Automatic Handling Systems.
- Design and plan effective Automatic Handling Systems for specific industrial applications.
- Acquire skills to troubleshoot and maintain Automatic Handling Systems for optimal performance.

Target Audience:

- Automation technicians interested in designing, implementing, and maintaining material handling solutions.

Course Duration: 3 Days

Course Contents

1.0 Introduction to Automatic Handling Systems: Importance and Applications

2.0 Principles of Material Handling Automation: Conveyors, Robots, AGVs

3.0 Sensors and Detection Mechanisms in Automatic Handling Systems

4.0 Control Strategies for Efficient Material Handling

5.0 Integration of Automatic Handling with Production Lines

6.0 Troubleshooting and Maintenance of Automated Handling Solutions