



This programme introduces participants to the field of Robotics and covers a range of disciplines related to electronics, engineering processes, computer science, and mechanics which are required for designing, developing and programming robots.

### PROGRAMME CONTENT

- Introduction to Robotics terminologies, definitions, and concepts
- The evolution of Robotics
- Introduction to problem solving and logic
- Algorithms and Coding
- Introduction to electronics and electric circuits
- Mechanical systems, sensors, actuators, manipulators and micro controllers
- Application of Artificial Intelligence, Neural Networks and Reinforcement Learning in Robotics
- Digital Transformation strategy
- Critical success factors of Robotics

### There are two Robotics programme options; Introductory and Advanced

#### Introduction to Robotics

This programme is designed for leaders and managers who need to deepen their understanding of robotics, and support automation and developments of robots in order to create the organisation's strategic competitive advantage. This programme does not require technical Robotics skills.

**Duration:** Two days of contact learning or 16 hours of online learning delivered over a period of one month.

These programmes can be customised for specific client needs and sectors.

#### Advanced Robotics

This programme is designed for professionals involved in designing, developing and programming robots. The programme is also well suited for the youth, students and graduates who wish to pursue professional careers in Robotics.

**Duration:** One month of contact learning or 60 hours of online learning delivered over a period of three months.

Successful participants will receive a Certificate in Robotics from Regenesys Institute of Management, based in India.