C.V. Raman Global University
ODISHA BHUBANESHWAR INDIA

C.V Raman Bosch Rexroth
Centre of Excellence

rexroth
A Bosch Company

Robotics (CMS)

Overview:

- For many years robotics has been evolving fast, providing speed, precision and quality in production processes.
- This course provides you with an insight into robotics hardware technology, its function and operation.

Participant Profile:

- Operation, Maintenance, Assembly & Planning personnel designers.
- Engineering Students.

Contents:

- Introduction to robotics and Necessity of robots in industrial automation.
- Joint movements and teach points.
- Coordinate system and Speed commands.
- Movement commands.
- Formulate, download and testing of related sequence programs.
- Multi-tasking.
- Safety regarding robots.
- Integration of CMS with Mechatronics

Learning Target:

The Participants will be able to

- Describe the mechanics behind robotics systems.
- Describe the working principles behind the control of movement and speed.
- Explain what is coordinate system.
- Read and write a basic robotics sequence program.

Prerequisites:

- Knowledge on PLC & Drives.
- Basic knowledge on Pneumatics.
- Communication Skills in English.

Teaching & Learning Media:

- Multimedia Presentation.
- Cut-section & Transparent models.
- Sample units & Power units.

Evaluation:

- Theory & Practical Exam
- Project work based on Industrial Application.

Time Durations:

- 18 Hours
- 6 Hours/ Day

Fee:

- Contact us for more details.