

The following learning targets represent the major concepts studied and assessed in this course.

## **Semester 1**

### **Unit 1: Principles of Manufacturing:**

- History of Manufacturing
- Control Systems
- Cost of Manufacturing

### **Unit 2: Manufacturing Processes:**

- Design for Manufacturability
- How we make Things
- Product Development

## **Semester 2**

### **Unit 3: Elements of Automation:**

- Introduction to Robotic Automation
- Introduction to Automation Power
- Robotic Programming and Usage

### **Unit 4: Integration of Manufacturing:**

- CIM Systems
- Integration of Manufacturing