



# **SNS COLLEGE OF TECHNOLOGY**

**Coimbatore-35**  
**An Autonomous Institution**

Accredited by NBA – AICTE and Accredited by NAAC – UGC with ‘A+’  
Grade Approved by AICTE, New Delhi & Affiliated to Anna University,  
Chennai



## **DEPARTMENT OF AEROSPACE ENGINEERING**

### **19ASZ301– ROBOTICS & AUTOMATION IN SPACE**

**III YEAR VI SEM**

#### **UNIT 2 –INTRODUCTION TO ROBOTICS**

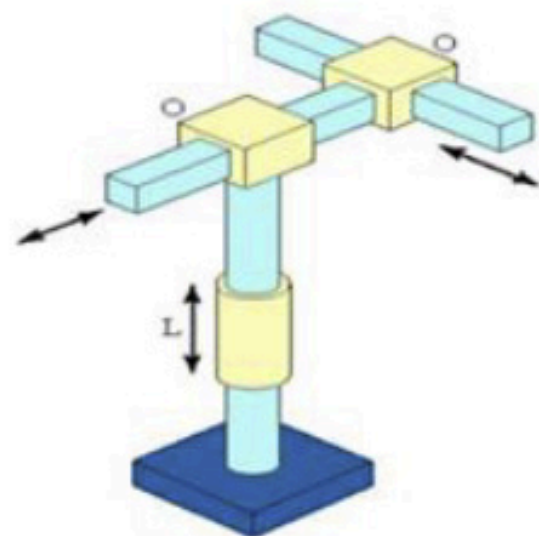
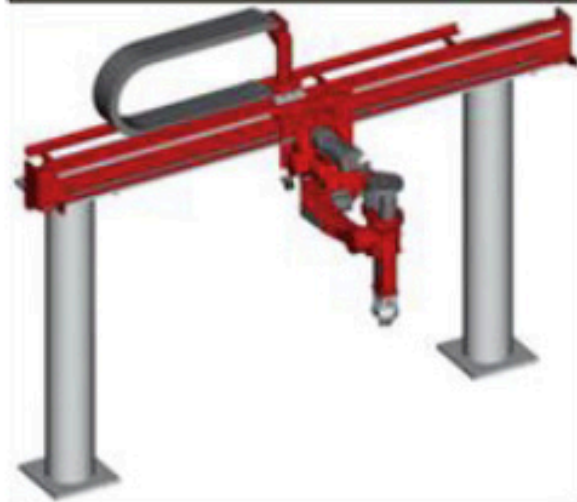
**TOPIC - Classifications & Applications**



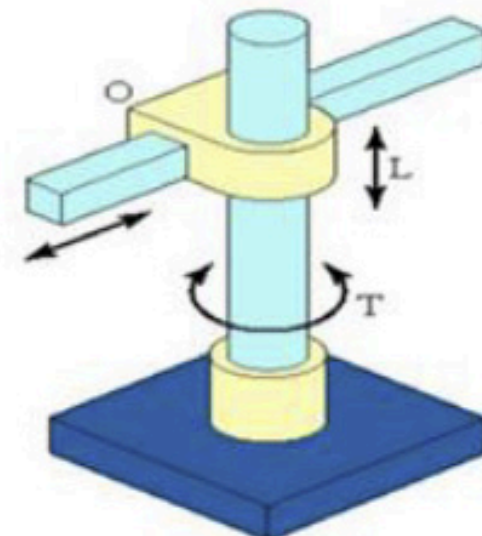
# CLASSIFICATION OF ROBOTS



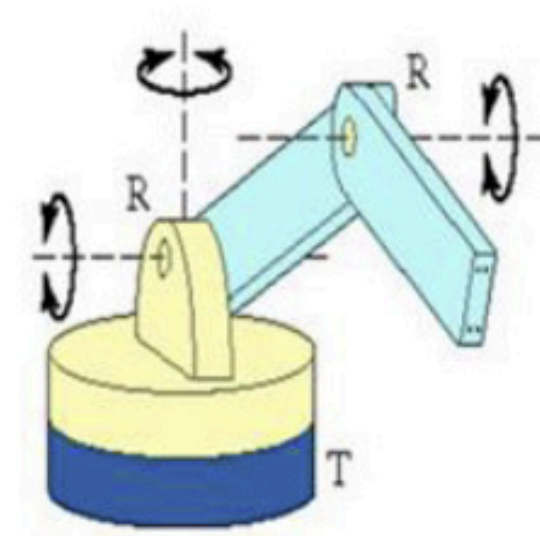
*Orthogonal  
working  
area*



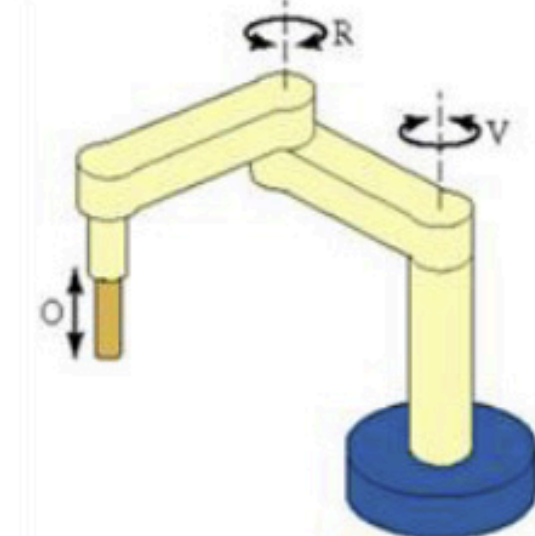
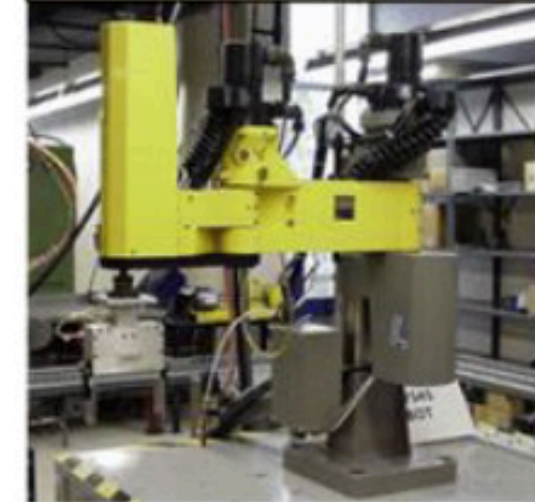
*Silindrical  
working  
area*



*Joint robot  
Sphere  
Co-ordinate*

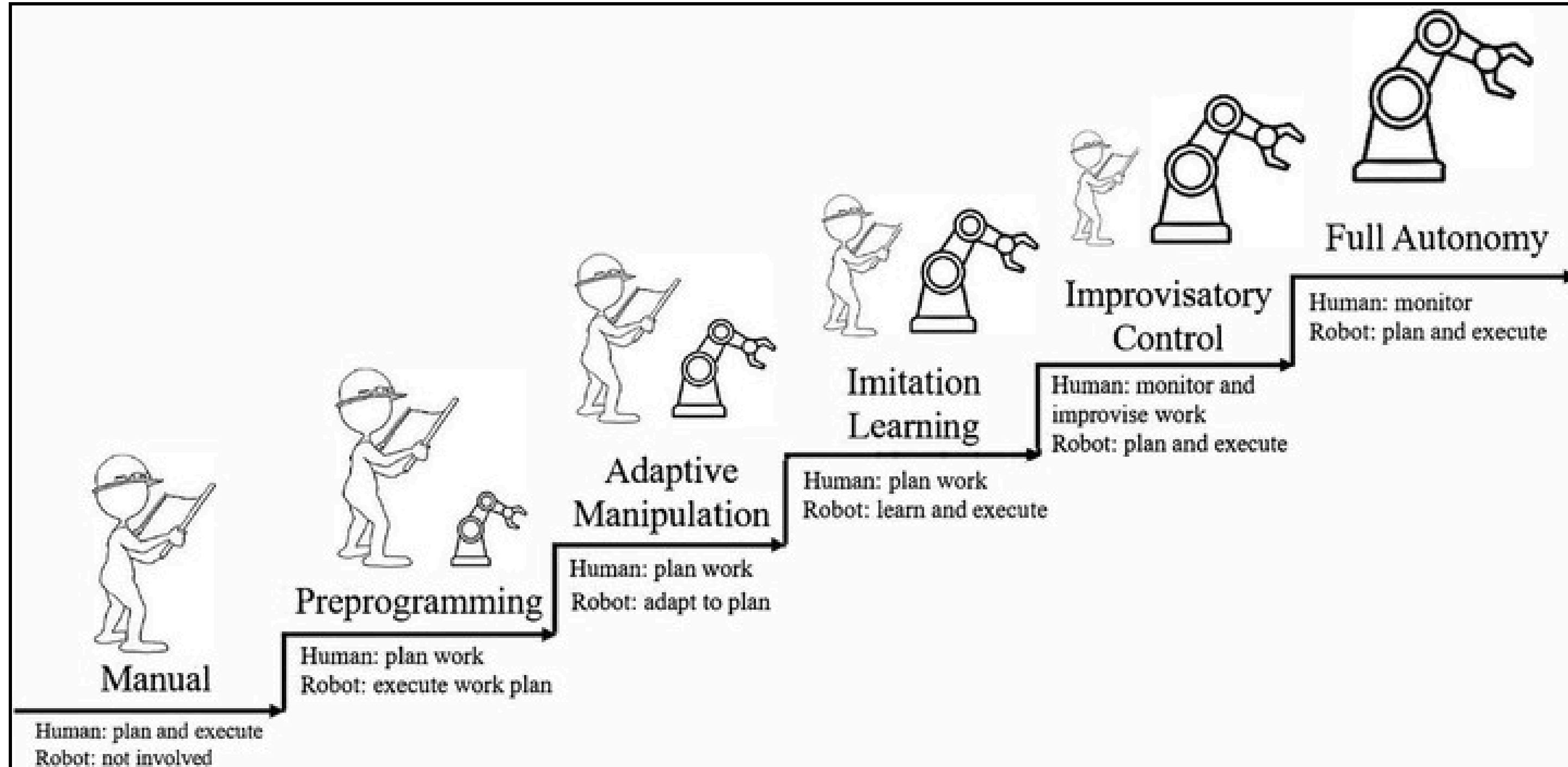


*SCARA  
robot*





# PROCESS





# APPLICATIONS



Classification Name	Definition	Function	Types of Robots
Telerobot	Robots that can sense the environment and make limited automatic reactions through computer programs to complete routine tasks	Routine tasks	Picking and placing robots, welding robots, cleaning robots, delivery robots, self-guard gate, ultraviolet-light-disinfection robots
Teleoperator	Robots that deal with nonroutine tasks in hazardous or inaccessible environments with continuous remote control from humans.	Nonroutine tasks	Drones, unmanned spacecraft, undersea robotic vehicles, unscrewed aerial vehicles
Social robot	Robots that have autonomous agents with social intelligence to interact with humans in an acceptable manner.	Entertainment, teaching, comfort, and assistance	Guiding robots, teaching robots, communication robots, assistive healthcare robots, autonomous vehicles



*Thank You*