



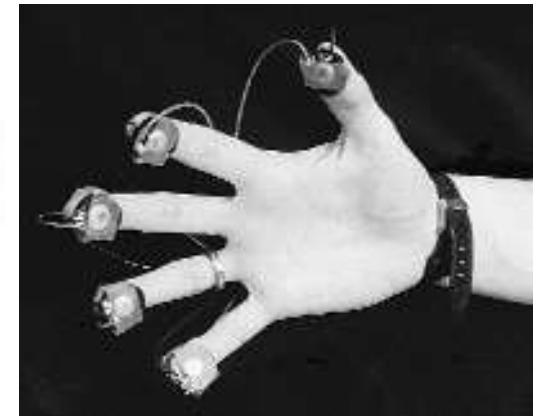
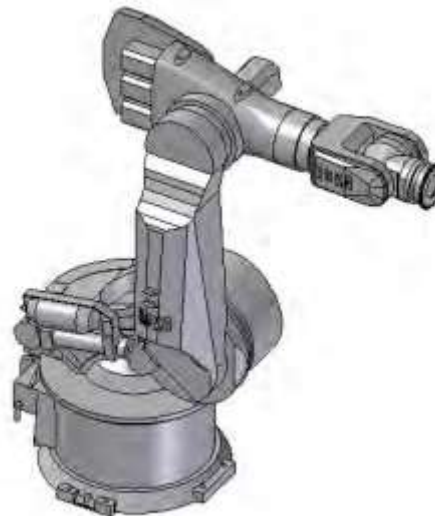
ELECTRICAL MACHINES IN ROBOTICS AND AUTOMATION

UNIT I - INTRODUCTION

Overview of robots –selection of motors and drives – sensors - communication technologies – SQL systems –IOT for robotics



Overview of Robots



K.GURUVARAN A/P EEE



What is A ROBOT ??





What is A ROBOT ??

A robot is a type of automated machine that can execute specific tasks with little or no human intervention and with speed and precision. The field of robotics, which deals with robot design, engineering and operation, has advanced remarkably in the last 50 years.

IDC identifies robotics as one of six innovation accelerators driving [digital transformation](#). The others include [3D printing](#), [cognitive computing](#), [next-generation security](#) and [virtual reality](#) or [augmented reality](#).



A Robot is

An electromechanical device that is:

- Reprogrammable
- Multifunctional
- Sensible for environment

