

# Design of Pick and Place Robot

Prof. Govekar Navnath Sopan<sup>1</sup>, Udaydeep Kumar<sup>2</sup>, Padalkar Tushar<sup>3</sup>, Shelke Vikas<sup>4</sup>, Kudale Pratik<sup>5</sup>

Lecturer, Department of Electrical Engineering<sup>1</sup>

Students, Department of Electrical Engineering<sup>2,3,4,5</sup>

, Navsahyadri Institute of Technology Polytechnic, Pune, Maharashtra, India

**Abstract:** *The popular concept of a robot is of a machine that looks and works like a human being. The industry is moving from current state of automation to Robotization, to increase productivity and to deliver uniform quality. The industrial robots of today may not look the least bit like a human being although all the research is directed to provide more and more anthropomorphic and humanlike features and super-human capabilities in these. One type of robot commonly used in industry is a robotic manipulator or simply a robotic arm. It is an open or closed kinematic chain of rigid links interconnected by movable joints. In some configurations, links can be considered to correspond to human anatomy as waist, upper arm and forearm with joint at shoulder and elbow. At end of arm a wrist joint connects an end effect which may be a tool and its fixture or a gripper or any other device to work.*

**Keywords:** Robot.

## REFERENCES

- [1]. RK Mittal and IJ Nagarath "Robotics and Control" BITS Pilani, 2003
- [2]. Ratheesh Rajan "Foundation Studies for an Alternate Approach to Motion Planning of Dynamic Systems" M.S.E., the University of Texas at Austin, 2001
- [3]. Richard E. Pattis. Karel the Robot: A Gentle Introduction to the Art of Programming. John Wiley & Sons, 1981. ISBN 0-471-59725-2.
- [4]. The MathWorks Inc. MATLAB 7.0 (R14SP2). The MathWorks Inc., 2005.
- [5]. Nam Sun Wang, Department of Chemical & Bimolecular Engineering, University of Maryland
- [6]. [www.robotis.com](http://www.robotis.com)