



Course: M.Tech. (Electronics & Communication Engineering)	Name of Faculty: Dr. Tripti S Warriar
Topic: 20-437-0110 Robotics Lab	Semester: FIRST
Lecture Hall:	Timings: as per CBCS

Set of experiments

1.	Design, construct a DC motor driver using L298 with speed, overload and direction control.
2.	Find the accuracy, repeatability and work envelop of SCARA robot.
3.	Design, construct and study a quadrature encoder for a given DC motor.
4.	Program the SCARA robot for transfer of a stack of objects from one position to another.
5.	Implement a closed loop control system for dc motor that maintains a constant speed of rotation (with 1%) different loads.
6.	Using Robotics Toolbox from MATLAB perform forward kinematics for the given manipulator.
7.	Using Robotics Toolbox for MATLAB perform 2-D Path Tracing with inverse kinematics.