

<b>Course: M.Tech. (Electronics &amp; Communication Engineering)</b>	<b>Name of Faculty: Dr. Tripti S Warriar</b>
<b>Topic: 18-437-0112 Robotics and Automation Lab</b>	<b>Semester: FIRST</b>
<b>Lecture Hall: 222 – AI &amp; Robotics lab</b>	<b>Timings: as per CBCS</b>

### Set of experiments

<b>Experiment No.</b>	<b>Objective of the experiment</b>	<b>Evaluation Date</b>
1	Design, construct a DC motor driver using L298 with speed, overload and direction control.	26 <sup>th</sup> July 19
2	Design, construct and study a Quadrature encoder for a given DC motor.	16 <sup>th</sup> Aug 19
3	Interface the encoder and driver developed to a microcontroller and program it for different speeds (user selectable) at various conditions.	20 <sup>th</sup> Sep 19
4	Using Robotics Toolbox for MATLAB perform forward kinematics for the given manipulator.	4 <sup>th</sup> Oct 19
5	Using Robotics Toolbox for MATLAB perform 2-D Path Tracing with Inverse Kinematics	25 <sup>th</sup> Oct 19