















Vision: To elucidate upon adventing robotic technologies.

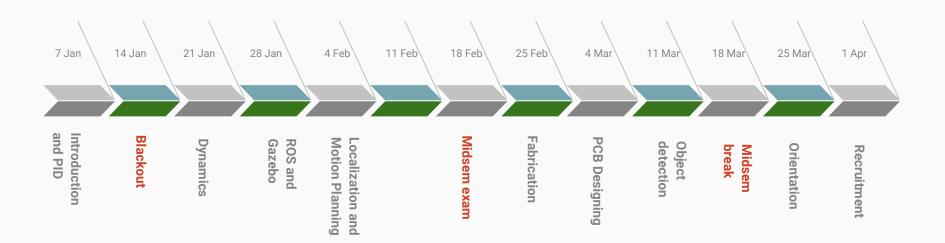
Mission:

To equip you with necessary tools to make a robot like this, from scratch.



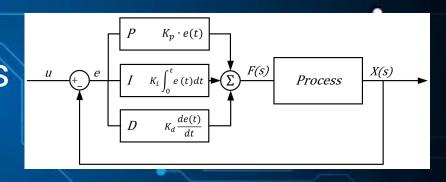
- Targeted Approach
- Application Oriented Learning

Timeline for Lectures



Lecture 1: PID

This lecture will introduce you to controls and basic feedback control system using PID.





Lecture 2: Dynamics

Explain the basics of dynamics and the use of MATLAB

Lecture 3: ROS and Gazebo

Install ROS and Gazebo in devices and explain the basics to get started



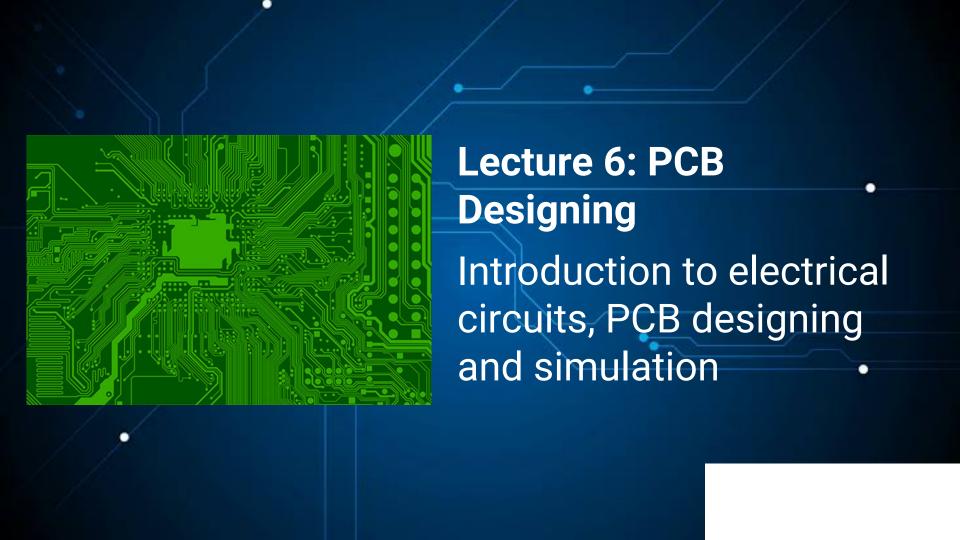




Lecture 4: Localization and Motion Planning

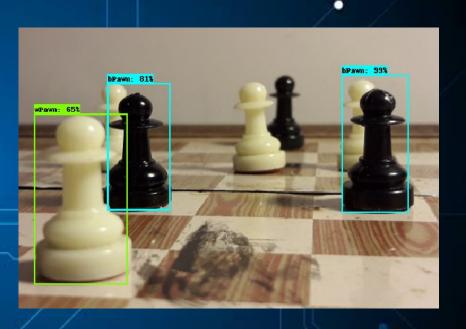
Popular localization algorithms and path planning algorithms





Lecture 7: Object Detection

Machine Learning and CNN basics, usage of TensorFlow libraries for object detection

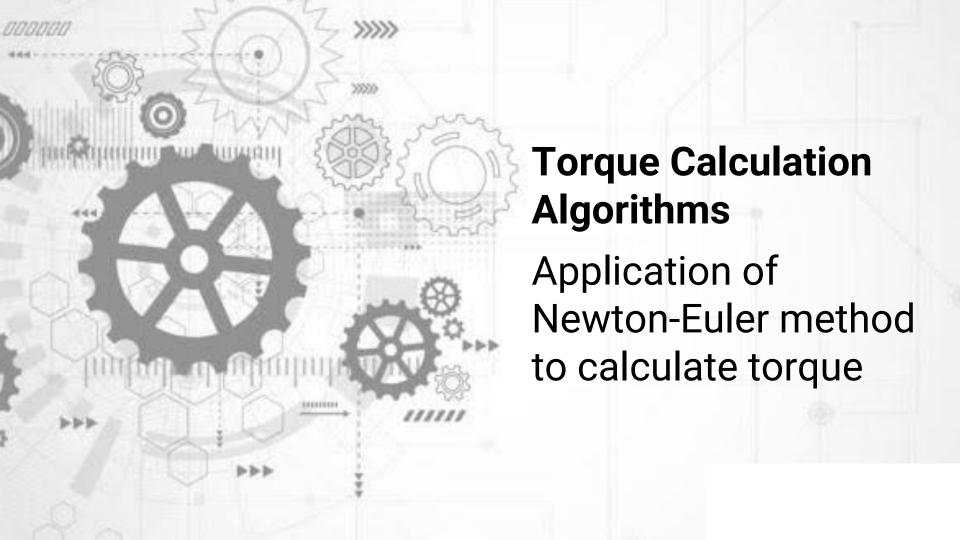


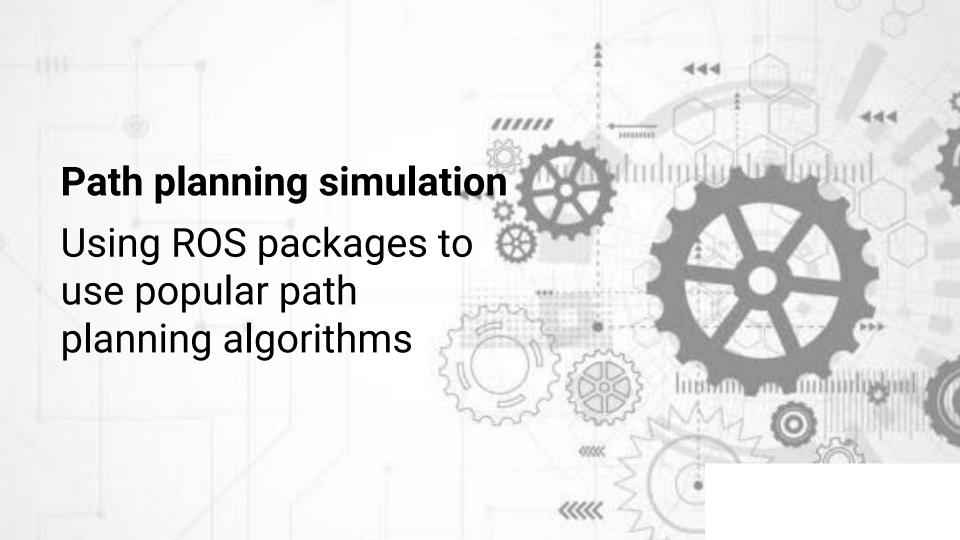


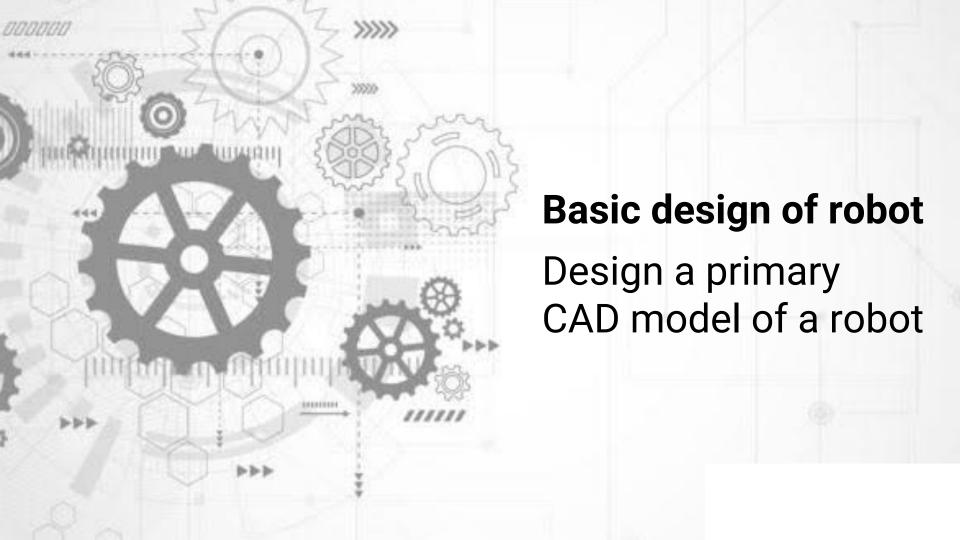
Lecture 8: Orientation for Summer

Learned concepts in the background of the problem statement



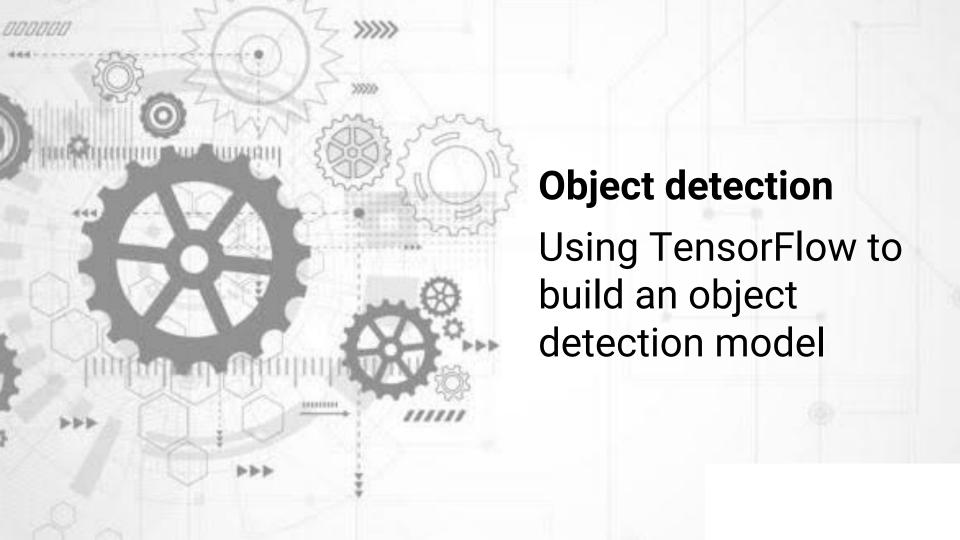








Use KiCAD and LTSpice to design a buck converter



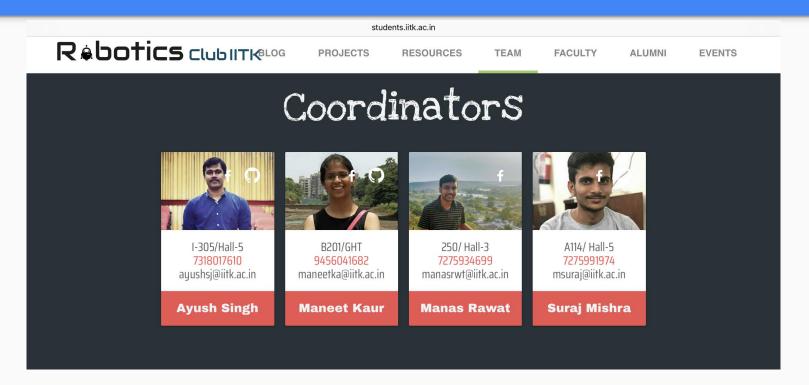
Recruitment Process

- Continual Assessment via Assignments etc.
- Follow-up Recruitment Test : Based on lectures.
 - Part 1: General Aptitude
 - Part 2 : Specialization
- The Specialization Section would be based on the content based on lectures, but not limited to it.
- To ease out the burden, you need to choose any attempt any two from the given choices in Part 2. Preferably the sections you are most confident about:)
- Last but not the least: "Enthusiasm "

The Rule of 3-P's



Contact Us



http://students.iitk.ac.in/roboclub/team/