Syllabus

Week	Basic	Intermediate	Advanced	Lab writer
1 Setup, physics	Set up simulation environment, add objects to environment.	Add objects to the environment, change their properties	Create random environments programmatically	Tiffany
2 Review Lab 1, Load robot [short]	Make a robot	Change the colors of the robot joints	N/A	Alex
3 Control	Move robot arm to a given joint configuration (joint control)	Move robot gripper to a point (Cartesian control)	Write a joint controller or cartesian controller, play with gains	Alex
4 Pick and place	Teleop pick and place, one object	Autonomous pick and place, one object	Pick arbitrary objects, move to container	Alex
5 Pushing	Teleop push	Autonomous 1D pushing	Push to an arbitrary point	Alex

Final project ideas

1. Create deformable objects, move them around
2. Extend one of the examples in the official repository folder

Resources

Course website: link - https://tinyurl.com/hssp-robot-site
Email: C14603-teachers@esp.mit.edu
Help queue (our class): https://tinyurl.com/hssp-robot-help
HSSP program help: https://esp.mit.edu/helpdesk