
E96C CYBERNETICS:
INTRODUCTION TO ROBOTIC CONTROL SYSTEMS

Week	Topics
0	Course Introduction Lecture: Introduction to Feedback Control Laboratory 1: Introduction to Control Systems
1	Lecture: Digital Sensor and Actuator Systems Laboratory 2: Control System Design and Performance Analysis
2	Lecture: Principles of Control System Stability - I Laboratory 3: Control System Design with Control Effort
3	Lecture: Principles of Control System Stability - II Laboratory 4: MIMO Control System Design with Disturbance Rejection
4	Lecture and Laboratory 5: MIMO Control System Design with Disturbance Rejection
5	Lecture and Laboratory 6: MIMO Control System Design of Unstable Plants
6	Lecture and Laboratory 7: Origin of Steady State Errors and MIMO Control System Design with Integral Action
7	Lecture and Laboratory 8: Robust Design of Inverted Pendulum Control
8	Lecture and Laboratory 9: Root Locus Design Control of Suspended Pendulum
9	Lecture and Laboratory 10: Root Locus Design Control of Inverted Pendulum
10	Special Topics – Control System Design Next Steps