

Robotic Systems II: Lecture Schedule (Fall 2025 Semester)

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Date	Title / Description
3 Oct 2025 (Fri)	Lecture 1: Dynamics, Discretization and Integrators
9 Oct 2025 (Thu)	Lab
10 Oct 2025 (Fri)	Lecture 2: Root Finding and Optimization via Newton's Method
16 Oct 2025 (Thu)	Lab
17 Oct 2025 (Fri)	Lecture 3: Constrained Optimization Methods
23 Oct 2025 (Thu)	Lab
24 Oct 2025 (Fri)	No Class
30 Oct 2025 (Thu)	No Lab
31 Oct 2025 (Fri)	Lecture 4: Deterministic Optimal Control & LQR
2 Nov 2025 (Sun)	Assignment #1 due
6 Nov 2025 (Thu)	Lab
7 Nov 2025 (Fri)	Lecture 5: Model Predictive Control & Non-linear Trajectory Optimization
13 Nov 2025 (Thu)	Lab
14 Nov 2025 (Fri)	Lecture 6: Matrix Lie Groups and Poses
20 Nov 2025 (Thu)	Lab
21 Nov 2025 (Fri)	Lecture 7: Optimization and Optimal Control on Manifolds
23 Nov 2025 (Sun)	Assignment #2 due
27 Nov 2025 (Thu)	Lab
28 Nov 2025 (Fri)	Lecture 8: Differential Dynamic Programming
4 Dec 2025 (Thu)	Lab
5 Dec 2025 (Fri)	Lecture 9: Optimal Control for Robots with Multiple Limbs/End-Effectors
11 Dec 2025 (Thu)	Lab
12 Dec 2025 (Fri)	Lecture 10: Optimal Control for Complex Robots
14 Dec 2025 (Sun)	Assignment #3 due
18 Dec 2025 (Thu)	Lab
19 Dec 2025 (Fri)	Recitation Lecture
24 Dec 2025 – 6 Jan 2026: No Class – Christmas & New Year Break	
9 Jan 2026 (Fri)	Seminar Talk (Tentative date)
11 Jan 2026 (Sun)	Assignment #4 due
18 Jan 2026 (Sun)	Assignment overdue (only 1 permitted)