

Welcome to Robot Manipulators and Automation

AUTO4507 2024

Professor Thomas Bräunl, office EE4.15, phone 6488-1763
 Consultation time: Mon. + Thu. following lectures in the Robotics Lab

Unit web site:

<http://roblab.org/courses/robman/>

Lab & Project Contacts:

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Assessment:

- Midterm 50%
- Labs 30% groups of 1–2
- Project 20% groups of 4
- Total 100%

Semester Dates:

ROBOT MANIPULATORS AND AUTOMATION										2024
week	cal-wk	week start	lectures A Wed. (2h)	reading	lectures B Fri. (2h)	reading	project	lab prep.	lab	lab contents
1	9	26-Feb	Org., 1.Introduction	ER 1	2. Technology	Frey: Tech		---		---
2	10	4-Mar	3. Automation		4. PLC–CodeSys	ER 5		CodeSys		---
3	11	11-Mar	5. Manipulators	ER 13	(cont.)	ER 13			1	Festo
4	12	18-Mar	(cont.)		6. Forward Kinematics	ER 16		Parallel	2	Festo
5	13	25-Mar	Guest Lecture CPS	ROS	Guest Lecture	Nachi			3	NUWAR
break	14	1-Apr	Easter break							
6	15	8-Apr	7. Inverse Kinematics	RA 16	8. Statics-Dynamics	–		UR5	4	NUWAR
7	16	15-Apr	Exam prep		MidTerm		Nachi	Vision	5	Pose movement
8	17	22-Apr	Excursion TBA		Excursion TBA		Nachi	Pick and Place	6	Vision
9	18	29-Apr	Excursion TBA		Excursion TBA		Nachi	Sorting	7	Pick and Place
10	19	6-May					Nachi		8	Sorting
11	20	13-May					Nachi			
12	21	20-May	Project presentation		Project presentation		Nachi			
					RA = Robot Adventures		ER = Embedded Robotics			Count best 7-of-8