

Welcome to AUTO4507

Robot Manipulators and Automation 2026 Sem2

Lecturer, Dr Lan Wu, Office EE 1.68, Lan.Wu@uwa.edu.au

Consultation time: via email to organise a time

Unit Web Site:

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

Lab & Project Contacts:

- Tiziano Wehrli tiziano.wehrli@research.uwa.edu.au
- Ethan Elliott 23464833@student.uwa.edu.au

Assessment:

- Midterm 50%
- Labs 30% groups of 2 (4 for Nachi)
- Project 20% groups of 4
- Total 100%

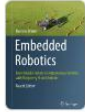
Semester Dates:

ROBOT MANIPULATORS AND AUTOMATION 2026 S2

Wk	Cal-wk	Wk Starts	Lecture A, Mon.	Book	Lecture B, Wed.	Book	Project	Lab Prep.	Labs
1	30	20-Jul	1. Organisation 2. Introduction	ER 1	3. Technology 4. Automation	Frey: Tech	---	---	---
2	31	27-Jul	5. Reliability	---	6. Manipulators	---	---	CodeSys	---
3	32	3-Aug	7. Forward Kinematics(1)	ER 13	7. Forward Kinematics(2)	Craig	---	Nachi	Festo
4	33	10-Aug	7. Forward Kinematics(3)	Craig	8. Vision 9. Motion Traj	---	---	UR5 & Vision	Nachi
5	34	17-Aug	10. Inverse Kinematics	Craig	Invited Lecture	---	---	UR5 & Gripper	Move & Touch
6	35	24-Aug	11. Statics- Dynamics	Craig	Invited Lecture	---	Project	Exam Prep	Pick & Place
Break	36	31-Aug							
7	37	7-Sep	Exam Prep		Mid Term		Project	UR5 & Block	
8	38	14-Sep			Excursion TBA		Project	Igus	Make a Jenga
9	39	21-Sep			Excursion TBA		Project		Igus
10	40	28-Sep					Project		Igus
11	41	5-Oct					Project		
12	42	12-Oct			Project Presentation		Project		

ER: Embedded robotics, **Frey Tech:** The technology trap, **Craig:** Introduction to robotics

Reading List (Next Page):



Embedded robotics : from mobile robots to autonomous vehicles with Raspberry Pi and Arduino , Fourth edition.

Book | Bräunl, Thomas, author., Singapore, Springer, 2022

High Demand

[View online](#)

[Available at Barry J Marshall Library 24 Hour Loan Collection: 629.892 2022 EMB](#)



Modern robotics : mechanics, planning, and control

Book | Lynch, Kevin (Kevin M.), author., Park, Frank C., author., Cambridge, UK, Cambridge University Press, 2023 - 2017

High Demand

[View online](#)



Introduction to robotics : mechanics and control , Third edition.

Book | Craig, John J., 1955- author., Harlow, Essex, Pearson, 2014

High Demand



Mobile Robot Programming: Adventures in Python and C, Second edition

Book | Bräunl, Thomas, Cham, Springer International Publishing AG, 2023

[View online](#)



The technology trap : capital, labor, and power in the age of automation

Book | Frey, Carl Benedikt, author., Princeton, New Jersey, Princeton University Press, 2019

[View online](#)



Robot manipulators : mathematics, programming, and control : the computer control of robot manipulators

Book | Paul, Richard P., Cambridge, Mass, M.I.T. Press, 1981

[Available at Barry J Marshall Library Main collection 2nd floor: 629.89 1981 PAU](#)