Welcome to Robot Manipulators and Automation AUTO4507   2025

Associate Lecturer Kieran Quirke-Brown office EE3.11
Consultation time: via email to organise a time

Unit web site:
http://roblab.org/courses/robman/

Lab & Project Contacts:
- Kieran Quirke-Brown   kieran.quirke-brown@uwa.edu.au

Assessment:
- Midterm   50%
- Labs   30% groups of 1–2
- Project   20% groups of 3

Total   100%

Semester Dates:

ROBOT MANIPULATORS AND AUTOMATION — 2025

week	cal-wk	week start	lectures A Mon. (2h	reading	lectures B Thur. (2h	reading	project	lab prep.	lab	lab contents
1	9	21-Jul	Org., 0.Introduction	ER 1	1. Technology	Frey: Tech		---		---
2	10	28-Jul	2. Automation		3. CodeSys	ER 5		CodeSys		---
3	11	4-Aug	4. Manipulators	ER 13	(cont.)	ER 16		Nachi	1	Festo
4	12	11-Aug	Forward Kinematics	Craig	(cont.)	Craig		UR5	2	Nachi
5	13	18-Aug	Inverse Kinematics	Craig	Vision			pick and place	3	Chess
6	14	25-Aug	Reliability		Statics-Dynamics	Craig	Project	Exam Prep		Pick and Place
break	15	1-Sep			–				4	
7	16	8-Sep	Exam prep		**MidTerm**		Project	Motion control	5	
8	17	15-Sep					Project	Jenga	6	Motion control
9	18	22-Sep					Project	Igus	7	Jenga
10	19	29-Sep					Project	Igus	8	Igus
11	20	6-Oct					Project			Igus
12	21	13-Oct			**Project presentation**		Project			

RA = Robot Adventures   ER = Embedded Robotics