

Welcome to Robotics GENG5508

2019

Professor Thomas Bräunl

Office EE4.15, phone 6488-1763

Consultation time: Mon. 14:00–15:00

Unit web site:

<http://robotics.ee.uwa.edu.au/courses/robotics/>


Lab & Project Contacts:

- Automation: Ken Foo ken.foo@research.uwa.edu.au
- Robotics: Dylan Leong 21485566@student.uwa.edu.au
- Vihanga Silva 21480143@student.uwa.edu.au
- Project: Ken Foo ken.foo@research.uwa.edu.au

Assessment:

- Midterm 1 30%
- Midterm 2 30%
- Labs-Automation 5%
- Labs-Robots 20% 8 (best-7-of-8, groups of 1 and 2)
- Project 15% groups of 4
- Total 100%

Semester Dates:

week	week start	lectures A (2h)	lectures B (2h)	reading	project	lab prep.	lab	lab contents
1	29-Jul	Org., 0.Intro, 1.Automot	2. Automation	Ch.1+26		--		---
2	5-Aug	3. Manipulators	3. Manipulators	Ch. 14		--		---
3	12-Aug	3. Manip. 4. Drive	5. Walk + 6. AUV/UAV	8 – 13		--	A1	Automation
4	19-Aug	7. Kinematics (+EyeSim)	8. Localization (+EyeSim)	Ch. 16		EyeSim	A2	Automation
5	26-Aug	exam prep	MidTerm 1			Splines	R1	Lawn mower
6	2-Sep	9. Navigation	9. Nav. + 10. Maps	17+18		Distbug	R2	Spline driving
7	9-Sep	11. Vision	12. AI-NN	19, 21, 22, 25	Manipulator	Quadtree	R3	Distbug
8	16-Sep	--	--		Manipulator	Brushfire	R4	Quadtree
9	23-Sep	exam prep	MidTerm 2		Manipulator	A*	R5	Brushfire
break	30-Sep							
10	7-Oct	Excursion	Excursion		Manipulator	Mapping	R6	A*
11	14-Oct	--	--	ER	Manipulator	NN	R7	Mapping
12	21-Oct	Project presentation	Project presentation		Presentation	--	R8	NN