

Course Outline

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3. Teaching strategies

Teaching of this course is through lectures and laboratory sessions. All laboratory work is individual work and attendance is preferred.

The provision of the learning environment in the laboratory is to facilitate you to develop

Localization 2	week 8	LR	Alternative approach: Applying an optimizer for solving the localization problem	No	Moodle lecture notes
Special Topic	week 9	LR	Case of Study: SLAM (Simultaneous Localization and Mapping)	No	Moodle lecture notes
PSO	week 10	LR	Introduction to PSO (Particle Swarm Optimization)	No	Moodle lecture notes
Genetic Algorithms	week 11	LR	Introduction to Genetic Algorithms	No	Moodle lecture notes

For further information on exams, please see Administrative Matters.

Calculators

You will need to provide your own calculator, of a make and model approved by UNSW, for the examinations. The list of approved calculators is shown at https://student.unsw.edu.au/exam-approved-calculators-and-computers

It is your responsibility to ensure that your calculator is of an approved make and model, and to obtain an "Approved" sticker for it from the School Office or the Engineering Student Centre prior to the examination. Calculators not bearing an "Approved" sticker will not be allowed into the examination room.

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For details of applying for special consideration and conditions for the award of supplementary assessment, see <u>Administrative Matters</u>, available on the School website and on Moodle, and the information on UNSW's <u>Special Consideration page</u>.

6. Expected Resources for students

All the academic material is provided by the lecturer (Lecture notes, example data, software libraries, example code, sensors and equipment)

7. Course evaluation and development

Feedback on the course is gathered periodically using various means, including the Course and Teaching Evaluation and Improvement (CATE()-4.77(21i)4.74102(E)3.56074(()-4.77(21i)4.74102(E)3.6074(E)3.6074(E)3.6074(E)3.607

Plagiarism is a type of intellectual theft. It can take many forms, from deliberate cheating to accidentally copying from a source without acknowledgement. UNSW has produced a website with a wealth of resources to support students to understand and avoid plagiarism: https://student.unsw.edu.au/plagiarism The Learning Centre assists students with understanding academic integrity and how not to plagiarise. They also hold workshops and can help students one-on-one.

You are also reminded that careful time management is an important part of study and one of the identified causes of plagiarism is poor time management. Students should allow sufficient time for research, drafting and the proper referencing of sources in preparing all assessment tasks.

Appendix A: Engineers Australia (EA) Professional Engineer Competency Standards

	ro ra Intended Learn n Outco es
	PE1.1 Comprehensive, theory-based understanding of underpinning fundamentals
Knowed e	PE1.2 Conceptual understanding of underpinning maths, analysis, statistics, computing
OW J	PE1.3 In-depth understanding of specialist bodies of knowledge
	PE1.4 Discernment of knowledge development and research directions
E and	PE1.5 Knowledge of engineering design practice
	PE1.6 Understanding of scope, principles, norms, accountabilities of sustainable engineering practice

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