give you opportunities to develop high-level analysis skills

This course will also provide you with opportunities to develop the following graduate attributes:

high level knowledge of structural engineering mechanics

skills in advanced computational modelling, linear, non-linear and fracture

application of fundamental knowledge to design with structural materials

development of core capabilities for undertaking of higher degree research in Structural Engineering

TEACHING STRATEGIES

This course is designed for student-centred learning. Students are encouraged to think critically to solve engineering problems and to ask questions in order to best achieve the learning outcomes

Private Study	Review lecture material and textbook
	Do set problems and assignments
	Join online discussions of problems
	Reflect on class problems and assignments
	Download materials from Moodle
Lectures	Find out what you must learn
	See methods that are not in the textbook
	Follow worked examples
	Hear announcements on course changes
Workshops	Be guided by Lectures
	Practice solving set problems
	Ask questions
Assessments	Demonstrate your knowledge and skills
	Demonstrate higher understanding and problem solving

EXPECTED LEARNING OUTCOMES

This course is designed to address the learning outcomes below and the corresponding Engineers Australia Stage 1 Competency Standards for Professional Engineers as shown. The full list of Stage 1 Competency Standards may be found in Appendix A.

After successfully completing this course, you should be able to:

Learning Outcome	EA Stage 1 Competencies
1. Interpret and understand the application of advanced structural mechanics in engineering problems	PE1.1, PE2.1, PE2.3

COURSE PROGRAM

Term 2 2020

Date	Topic	Lecture and Demonstration Content
02/06/2020		

PENALTIES

Late work will be penalised at the rate of 15% per day after the o

Appendix A: Engineers Australia (EA) Competencies

Stage 1 Competencies

for Professional Engineers

	Program Intended Learning Outcomes
PE1: Knowledge and Skill Base	PE1.1 Comprehensive, theory-based understanding of underpinning fundamentals
	PE1.2 Conceptual understanding of underpinning maths, analysis, statistics, computing
	PE1.3 In-depth understanding of specialist bodies of knowledge
	PE1.4 Discernment of knowledge development and research directions
	PE1.5 Knowledge of engineering design practice

PE1.6 Understanding of scope, principles, norms, accountabilities of sustainable engineering
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