



School of Civil and Environmental Engineering
Term 3, 2021

CVEN4309 SUSTAINABLE TIMBER ENGINEERING

COURSE DETAILS

Lecture

Workshop

**Course Coordinator
and Lecturer**

INFORMATION ABOUT THE COURSE

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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.

Learning Outcome	EA Stage 1 Competencies
<i>Apply understanding of timber material properties and timber structural behaviour to the design of timber structural members and connections.</i>	<i>PE1.1, PE1.2</i>
<i>Interpret and apply relevant Australian and European Standards to competently design and evaluate the capacity of timber members and connections.</i>	<i>PE1.1, PE1.2</i>
<i>Appreciate the range of potential timber structures from houses to multistorey timber buildings and larger iconic structures.</i>	<i>PE1.1, PE1.2</i>
<i>Incorporate practical durability, fire, manufacture and assembly considerations in design.</i>	<i>PE1.1, PE1.2</i>

6 – 8 hours per week

COURSE PROGRAM

Term 3 2021

Date	Topic	Lecture Content	Workshop / Quiz
	Introduction; Engineering Properties of Timber		
	Bending of Timber Members		
	Tension and Compression of Timber Members		
	Capacity of Connections		
	Material Properties of Cross-Laminated Timber		
	<i>Flexibility week for all courses (non-teaching)</i>		

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**Capacity of Connections
(for Cross-Laminated
Timber)**

RELEVANT RESOURCES

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DATES TO NOTE

PLAGIARISM

ACADEMIC ADVICE

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Appendix A: Engineers Australia (EA) Competencies

Stage 1 Competencies for Professional Engineers

	Program Intended Learning Outcomes
PE1: Knowledge and Skill Base	
PE2: Engineering Application Ability	
PE3: Professional and Personal Attributes	