

CIVL 7007 ADVANCED TIMBER STRUCTURES

Credit Points 10

Legacy Code 301009

Coordinator Fidelis Mashiri ([https://directory.westernsydney.edu.au/search/name/Fidelis Mashiri/](https://directory.westernsydney.edu.au/search/name/Fidelis%20Mashiri/))

Description This unit enables students to gain an in-depth knowledge into timber structures based on Australian Standards. Design of timber beams, floors, columns and connections will be introduced with a focus on the use of plywood, round timbers, glue-laminated timber and structural laminated veneer lumber.

School Eng, Design & Built Env

Discipline Civil Engineering

Student Contribution Band HECS Band 2 10cp

Level Postgraduate Coursework Level 7 subject

Restrictions

Students must be enrolled in a postgraduate program

Learning Outcomes

On successful completion of this subject, students should be able to:

1. Interpret the properties of sawn timber and manufactured wood products that influence their strength as a construction materials.
2. Apply limit state design concepts for timber elements and whole structures
3. Determine design loads and analyse timber structures to evaluate internal design action effects
4. Design timber elements based on evaluated design action effects

Subject Content

1. Characteristics, grading and use of timber for structural design
2. Design of tension members
3. Design of Compression members
4. Design of members in flexure
5. Design of members under combined action
6. Design of connections

Assessment

The following table summarises the standard assessment tasks for this subject. Please note this is a guide only. Assessment tasks are regularly updated, where there is a difference your Learning Guide takes precedence.

Item	Length	Percent	Threshold	Individual/ Group Task
Professional Task	10 pages per assignment	20	N	Individual
Intra-session Exam	2 hours	20	N	Individual
Final Exam	2 hours	60	N	Individual

Teaching Periods

Autumn

Parramatta City - Macquarie St

Day

Subject Contact Fidelis Mashiri ([https://directory.westernsydney.edu.au/search/name/Fidelis Mashiri/](https://directory.westernsydney.edu.au/search/name/Fidelis%20Mashiri/))

View timetable (https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=CIVL7007_22-AUT_PC_D#subjects)