

CIVL 4009 TIMBER STRUCTURES (UG)

Credit Points 10

Legacy Code 300739

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

Description Students learn about the engineering properties of timber and assess it as a construction material. Design methods based on structural mechanics are covered including the design of members and connections.

School Eng, Design & Built Env

Discipline Structural Engineering

Student Contribution Band HECS Band 2 10cp

Check your fees via the Fees (https://www.westernsydney.edu.au/currentstudents/current_students/fees/) page.

Level Undergraduate Level 4 subject

Pre-requisite(s) CIVL 2007

Co-requisite(s) CIVL 3014

Equivalent Subjects LGYB 1031 - Timber Structures (UG)

Learning Outcomes

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

1. Identify the properties of timber that influence its strength as a construction material.
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

Characteristics, grading and use of timber for structural design
 Design of tension members
 Design of Compression members
 Design of members in flexure
 Design of members under combined action
 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.

Type	Length	Percent	Threshold	Individual/ Group Task
Professional Task	Submission of tutorial solutions (every fortnight from week 3)	10	N	Individual

Intra-session Exam	2 hours	15	N	Individual
Report	Approximately 40 pages	25	N	Group
Final Exam	2 hours	50	N	Individual

Teaching Periods

Autumn (2024)

Penrith (Kingswood)

On-site

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=CIVL4009_24-AUT_KW_1#subjects)

Parramatta City - Macquarie St

On-site

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=CIVL4009_24-AUT_PC_1#subjects)

Sydney City Campus - Term 1 (2024)

Sydney City

On-site

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=CIVL4009_24-SC1_SC_1#subjects)

Sydney City Campus - Term 3 (2024)

Sydney City

On-site

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=CIVL4009_24-SC3_SC_1#subjects)