

# 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** Civil Engineering

**Student Contribution Band** HECS Band 2 10cp

Check your HECS Band contribution amount via the Fees ([https://www.westernsydney.edu.au/currentstudents/current\\_students/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.

Item	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 Penrith (Kingswood)

**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=CIVL4009\\_22-AUT\\_KW\\_D#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=CIVL4009_22-AUT_KW_D#subjects))

## Parramatta - Victoria Rd

**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=CIVL4009\\_22-AUT\\_PS\\_D#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=CIVL4009_22-AUT_PS_D#subjects))

## Sydney City Campus - Term 1 Sydney City

**Day**

**Subject Contact** Ankit Agarwal ([https://directory.westernsydney.edu.au/search/name/Ankit Agarwal/](https://directory.westernsydney.edu.au/search/name/Ankit%20Agarwal/))

View timetable ([https://classregistration.westernsydney.edu.au/even/timetable/?subject\\_code=CIVL4009\\_22-SC1\\_SC\\_D#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=CIVL4009_22-SC1_SC_D#subjects))

## Sydney City Campus - Term 3 Sydney City

**Day**

**Subject Contact** Peter Lendrum ([https://directory.westernsydney.edu.au/search/name/Peter Lendrum/](https://directory.westernsydney.edu.au/search/name/Peter%20Lendrum/))

View timetable ([https://classregistration.westernsydney.edu.au/even/timetable/?subject\\_code=CIVL4009\\_22-SC3\\_SC\\_D#subjects](https://classregistration.westernsydney.edu.au/even/timetable/?subject_code=CIVL4009_22-SC3_SC_D#subjects))