

Syllabus of Masters of Civil Engineering for Full-time Students

First Year of Master of Civil Engineering (Graduate Diploma of Engineering - Civil)			
Semester 1		Semester 2	
CIVL3110	Structural Analysis	CIVL3112	Structure Concrete Design
CIVL3111	Structural Steel Analysis	CIVL3150	Project Management and Risk Engineering
CIVL4120	Foundation Engineering Design	CIVL4110 or CIVL4121	Structural Dynamics or Geotechnical and Geoenvironmental Engineering
CIVL4130	Offshore and Coastal Engineering	CIVL7140*	Civil Engineering Numerical Analysis
Second Year of Master of Civil Engineering			
Semester 1		Semester 2	
CIVL8101*	Dissertation MCivilE Part 1	CIVL8103*	Dissertation MCivilE Part 3
CIVL8102*	Dissertation MCivilE Part 2	CIVL8104*	Dissertation MCivilE Part 4
CIVL8110**	Stochastic Analysis of Structures	CIVL8120**	Computational Geomechanics
CIVL8130**	Computational Fluid Mechanics	CIVL8140**	Computational Solid Mechanics

Note:

- * Denotes compulsory unit
- ** Denotes four optional units in which at least three of them must be completed.
- The units listed in the First Year study are highly recommended. Though you may have studied some of the units in your home country, the units listed will introduce you to the content related to the Australian Design Codes.
- The units listed in the First Year study can be replaced by the units listed below (Elective Units for First Year Study) after consultation with the head of the department or the coordinator of the course.

Elective Units for First Year Study

Semester 1		Semester 2	
CIVL3120	Applied Geomechanics	CIVL3140	Civil Engineering Analysis and Modelling
CIVL4111	Design of Structural Systems	CIVL4150	Engineering Practice
CIVL4180	Transportation Engineering	CIVL3170	Introduction to Offshore Engineering
		CIVL4122	Offshore Geomechanics