

Enrolment Course Structure

Course Code – EG8.CIV

Course Name – Bachelor of Engineering (Civil) (Honours)

First Year	Unit Code	Unit Name	Unit Rules
Semester 1			
	ENGIN1001	Professional Engineering	EX: ENCOR1005 & GPENG1001
	ENGIN1002	Engineering Physics	EX: ENCOR1021 & ENCOR2100 & GPENG1002
	ENGIN1003	Materials in Engineering	EX: ENCOR1110 & GPENG1003
	MATHS1001	Modelling and Change (Introductory Level)	
Semester 2			
	ENGIN1004	Engineering Design and Drafting	EX: ENCOR1010 & GPENG1004
	ENGIN1005	Engineering Mechanics	EX: ENCOR1110 & ENCOR1021 & GPENG1005
	ENGIN1006	Engineering Computer Modelling	EX: ENCOR1021 & GPENG1006
	MATHS1102	Linear Algebra and Applications	EX: MATHS1005
Second Year	Unit Code	Unit Name	Unit Rules
Semester 1			
	ENGIN2001	Professional Practice	PR: ENGIN1001 or ENCOR1005 EX: ENCOR3035
	ENGIN2201	Hydraulics and Hydrology	PR: ENCOR1021 or ENCOR2100 or ENGIN1002 EX: ENCIV2320
	ENGIN2202	Concrete Technology and Civil Construction	PR: ENCOR1110 or ENGIN1003 EX: ENCIV2020
	ENGIN2301	Mechanics of Solids	PR: ENGIN1005 for undergraduate Students only EX: ENCOR2030
		MATHS2001 OR MATHS2016	
Semester 2			
	ENGIN2002	Engineering Project Management and Sustainable Design	EX: ENMEC2121 & ENMTX2050
	ENGIN2203	Structural Analysis	PR: ENCOR2030 or ENGIN2301 EX: ENCIV2310
	ENGIN2204	Introduction to Geotechnical Engineering	PR: ENGIN2301 EX: ENCIV2330
	MATHS3001	Modelling and Change (Advanced Level)	PR: MATHS1001 EX: MATHS2006

Third Year	Unit Code	Unit Name	Unit Rules
Semester 1			
	ENGIN3201	Structural Design	PR: ENCIV2310 or ENGIN2203 EX: ENCIV3310
	ENGIN3202	Geotechnical Engineering	EX: ENCIV3330
	ENGIN3203	Traffic and Transport	EX: ENCIV3340
	ENGIN3204	Engineering Surveying	EX: ENCIV2010
Semester 2			
	ENGIN3001	Engineering Research Methodology and Management	PR: ENCOR1005 or ENGIN1001 EX: ENCOR4010 & ENMTX4060
	ENGIN3002	Engineering Design Project	PR: ENGIN2002 or ENMTX2050 EX: ENCIV3360 & ENMEC2120 & ENMEC3250 & ENMTX3800
	ENGIN3205	Road Engineering	PR: ENGIN3203 for undergraduate Students only EX: ENCIV3350
	ENGIN3206	Water and Wastewater	PR: ENCIV2320 or ENGIN2201 EX: ENCIV3320
Fourth Year	Unit Code	Unit Name	Unit Rules
Semester 1			
	ENGIN4001	Engineering Project 1	EX: ENCOR4100
		Specialisation Elective	
		Specialisation Elective	
Semester 2			
	ENGIN4002	Engineering Project 2	PR: ENCOR4100 or ENGIN4001 EX: ENCOR4200
		Specialisation Elective	
		Specialisation Elective	

Specialisation list

Semester 1

ENGIN4201	Management of Water Resources
ENGIN5302	Modelling and Simulation
SCENV2600	Geographic Information Systems

Semester 2

ENGIN4203	Engineering Construction
ENGIN5202	Advanced Structural Analysis I

MREGC5004 Asset Management Techniques

Additional Information

This course structure applies to continuing students who commenced in 2023 or prior.

Glossary

Semester: designated teaching period.

PR: Pre-requisite, a unit/s that must be completed prior to undertaking another unit.

CO: Co-requisite, a unit/s that must be completed simultaneously, or prior to, undertaking another unit.

EX: Exclusion, a unit/s that may not be taken.