

Enrolment Program Structure

Program Code – EG8.CIV

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

First Year	Course Code	Course Name	Course Rules
Semester 1			
	ENGIN1001	Professional Engineering	EX: ENCOR1005
	ENGIN1002	Engineering Physics	EX: ENCOR1021 and ENCOR2100
	ENGIN1003	Materials in Engineering	EX: ENCOR1110
	MATHS1001	Modelling and Change (Introductory Level)	
Semester 2			
	ENGIN1004	Engineering Design and Drafting	EX: ENCOR1010
	ENGIN1005	Engineering Mechanics	EX: ENCOR1110 and ENCOR1021
	ENGIN1006	Engineering Computer Modelling	EX: ENCOR1021
	MATHS1005	Secrets of the Matrix	
Second Year	Course Code	Course Name	Course 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: ENCOR1000 or ENCOR1021 or ENGIN1005 EX: ENCOR2030
		MATHS2001 OR MATHS2016	
Semester 2			
	ENGIN2002	Engineering Project Management and Sustainable Design	PR: ENCOR1005 or ENGIN1001 EX: ENMEC2121 and ENMTX2050
	ENGIN2203	Structural Analysis	PR: ENCOR2030 or ENGIN2301 EX: ENCIV2310
	ENGIN2204	Introduction to Geotechnical Engineering	EX: ENCIV2330
	MATHS3001	Modelling and Change (Advanced Level)	PR: MATHS2001 EX: MATHS2006

Third Year	Course Code	Course Name	Course Rules
Semester 1			
	ENGIN3201	Structural Design	PR: ENCIV2310 or ENGIN2203 EX: ENCIV3310
	ENGIN3202	Geotechnical Engineering	PR: ENCIV2330 or ENGIN2204 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
	ENGIN3002	Engineering Design Project	PR: ENGIN2002 or ENMEC2121 or ENMTX2050 EX: ENCIV3360 and ENMEC2120 and ENMEC3250 and ENMTX3800
	ENGIN3205	Road Engineering	PR: ENCIV3340 or ENGIN3203 EX: ENCIV3350
	ENGIN3206	Water and Wastewater	PR: ENCIV2320 or ENGIN2201 EX: ENCIV3320
Fourth Year	Course Code	Course Name	Course Rules
Semester 1			
	ENGIN4001	Engineering Project 1	PR: ENGIN3001 EX: ENCOR4100
		Specialisation Elective	
		Specialisation Elective	
Semester 2			
	ENGIN4002	Engineering Project 2	PR: ENCOR4100 or ENGIN4001 EX: ENCOR4200
		Specialisation Elective	
		Specialisation Elective	

Additional Information

This program structure applies to all students.

Glossary

Semester: designated teaching period.

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

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

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

Specialisation Electives

Semester 1

ENGIN5201	Surface Water Hydrology
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ENGIN5302	Modelling and Simulation
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SCENV2600	Geographic Information Systems
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Semester 2

ENGIN4201	Management of Water Resources
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ENGIN5202	Advanced Structural Analysis I
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MREGC5004	Asset Management Techniques
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