

APPROVED

Bachelor of Engineering in Civil Engineering
Faculty of Engineering & Science

Award Class					
Awards					
BEng					
Programme Code	CR_CCIVL_7	Mode of Delivery	Full Time, Part Time, ACCS	No. of Semesters	6
NFQ Level	7	Embedded Award	No	Programme Credits	180
Next Review Date					
Review Type				Date	
Programmatic Review				01/09/2024	
Department	CIVIL, STRUCTURAL & ENVIRONMENTAL ENGINEERING				

Programme Outcomes

Upon successful completion of this programme the graduate will be able to demonstrate... :

#	PO Domains	Programme Learning Outcome
PO1	Knowledge - Breadth	A knowledge of areas of mathematics, science, ICT, design, business and engineering practice relevant to civil engineering technology.
PO2	Knowledge - Kind	The ability to apply knowledge of mathematics, science, ICT, design, business and engineering practice to the solution of broadly-defined civil engineering technology problems.
PO3	Skill - Range	The ability to use basic techniques, skills and modern computer-based engineering tools necessary for engineering practice.
PO4	Skill - Selectivity	The ability to contribute to the design of a system, component or process to meet specified needs and to contribute to the assessment of the technical performance of the design.
PO5	Competence - Context	The ability to conduct investigations to facilitate the solution of common engineering technology problems in civil engineering.
PO6	Competence - Role	The ability to work effectively as an individual, in teams and in multidisciplinary settings within her/his allocated responsibility, and to supervise staff in well-defined work settings. The ability to communicate effectively, using the appropriate communication tools and methods, with the engineering community and society at large.
PO7	Competence - Learning to Learn	The ability plan and carry through self-directed continuing professional development and the ability to consult,work with and learn from experts in various fields in the realisation of a project
PO8	Competence - Insight	An understanding of the wider social, political, business and economic context within which engineering operates and the need for high ethical standards in the practice of engineering, including the responsibilities of the engineering profession towards people and the environment.

Semester Schedules

Year 1 / Semester 1

Mandatory				
Code	Title	Module Coordinator	Version	Credits
CMOD6001	Creativity Innovation&Teamwork	MARESE BERMINGHAM	3	5
CIVL6003	Domestic Construction	DES WALSH	5	5
CIVL6009	Engineering Science	DES WALSH	5	5
CIVL6001	Introductory Applied Mechanics	DES WALSH	4	5
CIVL6033	Technical Communication - Eng	DES WALSH	2	5
MATH6016	Technological Maths 1 (C.A.)	David Goulding	2	5

Year 1 / Semester 2

Mandatory				
Code	Title	Module Coordinator	Version	Credits
CIVL6002	Applied Mechanics	DES WALSH	4	5
CIVL6018	Civil Engineering Materials	DES WALSH	3	5
EENG6001	Environmental Engineering	DES WALSH	2	5
MATH6061	Introductory Calculus	David Goulding	1	5
CIVL6028	Introductory Land Surveying	DES WALSH	3	5

Elective				
Code	Title	Module Coordinator	Version	Credits
INTR6021	3D Built Environment Modelling	DES WALSH	2	5
FREE6001	Free Choice Module	PAUL GALLAGHER	3	5
INFO6015	IT in Communications	Claire OSullivan Rochford	3	5

Year 2 / Semester 1

Mandatory				
<i>Code</i>	<i>Title</i>	<i>Module Coordinator</i>	<i>Version</i>	<i>Credits</i>
CIVL6031	<u>Health and Safety - Built Env</u>	DES WALSH	3	5
CIVL6029	<u>Intro. to Structural Steel</u>	DES WALSH	3	5
CIVL7024	<u>Land Surveying Control</u>	DES WALSH	2	5
CIVL6032	<u>Planning & Development</u>	DES WALSH	3	5
CIVL6024	<u>Structural Mechanics</u>	DES WALSH	4	5
MATH6040	<u>Technological Mathematics 201</u>	David Goulding	5	5

Year 2 / Semester 2

Mandatory				
<i>Code</i>	<i>Title</i>	<i>Module Coordinator</i>	<i>Version</i>	<i>Credits</i>
CIVL7027	<u>Civil & Struc Eng Construction</u>	DES WALSH	2	5
CIVL7005	<u>Digital Land Surveying and GPS</u>	DES WALSH	3	5
CIVL7032	<u>Hydraulics & Hydrology</u>	DES WALSH	2	5
CIVL6030	<u>Intro. to Reinforced Concrete</u>	DES WALSH	3	5
CIVL6022	<u>Professional Studies</u>	DES WALSH	3	5

Elective				
<i>Code</i>	<i>Title</i>	<i>Module Coordinator</i>	<i>Version</i>	<i>Credits</i>
INTR7020	<u>BIM for Infrastructure</u>	DES WALSH	2	5
CIVL7037	<u>Energy Efficient Housing</u>	DES WALSH	1	5
FREE6001	<u>Free Choice Module</u>	PAUL GALLAGHER	3	5

Year 3 / Semester 1

Mandatory				
<i>Code</i>	<i>Title</i>	<i>Module Coordinator</i>	<i>Version</i>	<i>Credits</i>
MATH7019	Applied Technological Math 311	David Goulding	5	5
CIVL7012	Soil Mechanics and Geology	DES WALSH	4	5
CIVL6025	Solid Mechanics	DES WALSH	4	5
CIVL7028	Struct Steel & Timber Design	DES WALSH	4	5
CIVL7030	Water & Wastewater Engineering	DES WALSH	2	5

Elective				
<i>Code</i>	<i>Title</i>	<i>Module Coordinator</i>	<i>Version</i>	<i>Credits</i>
CIVL7002	Civil Eng Construct Management	DES WALSH	3	5
FREE6001	Free Choice Module	PAUL GALLAGHER	3	5
INTR7037	GIS for Spatial Data Analysis	DES WALSH	1	5

Year 3 / Semester 2

Mandatory				
<i>Code</i>	<i>Title</i>	<i>Module Coordinator</i>	<i>Version</i>	<i>Credits</i>
CIVL7001	Civil Eng Research Project	DES WALSH	4	10
CIVL7009	Geotechnical Engineering	DES WALSH	5	5
CIVL7026	Reinforced Concrete Design	DES WALSH	4	5
CIVL7036	Structural Analysis of Beams &	DES WALSH	1	5

Elective				
<i>Code</i>	<i>Title</i>	<i>Module Coordinator</i>	<i>Version</i>	<i>Credits</i>
BULD7029	Financial & Contract Const Mgt	DANIEL CAHILL	2	5
CIVL7010	Highway Engineering Technology	DES WALSH	3	5
MATH7021	Maths for Civil Engineering	David Goulding	5	5
CIVL7031	Transport Infrastructure	DES WALSH	2	5

