



APPROVED

Awards	
Honours Bachelor Degree	
Mode of Delivery:	Full Time, ACCS
No. of Semesters :	8
NFQ Level:	8
Programme Credits:	240
Language of Instruction:	English
Department:	Built Environment

Semester Schedules

Stage 1 / Semester 1

Elective Regulation

All modules are mandatory. The following modules require that students participate in class work, practical work and project work and students must achieve a minimum of 50% in these elements of continuous assessment in order to have satisfied the module learning outcomes: Material Science + Soil Mechanics - The following modules show that part of the module are shared: - Engineering Physics

Mandatory	
Module Code	Module Title
DRAW C1503	Engineering Drawing I
MATH C1503	Mathematics and Statistics I
PHYS C1501	Engineering Physics
SCIE C1503	Material Science and Soil Mechanics
TECH C1501	Civil Engineering Technology I

Stage 1 / Semester 2

Elective Regulation

- All modules are mandatory. - The following modules require that students participate in class work, practical work and project work and students must achieve a minimum of 50% in these elements of continuous assessment in order to have satisfied the module learning outcomes: Quantity Surveying & Estimating and Engineering Drawing II + Surveying & Setting Out I - The following module show that part of the module is shared: - Engineering Chemistry

Mandatory	
Module Code	Module Title
DRAW C1504	Engineering Drawing II and Surveying And Setting Out I
ENGR C1502	Engineering Mathematics I
SCIE C1504	Engineering Chemistry
SURV C1506	Quantity Surveying and Estimating
TECH C1502	Civil Engineering Technology II

Stage 2 / Semester 1

Elective Regulation

- All modules are mandatory. - The following modules require that students participate in class work, practical work and project work and students must achieve a minimum of 50% in these elements of continuous assessment in order to have satisfied the module learning outcomes: - Civil Engineering Drawing + Surveying

Mandatory	
Module Code	Module Title
ECON C2501	Civil Engineering Economics and Management
ENGR C2501	Geotechnical Engineering I
MATH C2502	Mathematics and Statistics II
STRU C2501	Structural Analysis I
SURV C2501	Civil Engineering Drawing and Surveying

Stage 2 / Semester 2

Elective Regulation

- All modules are mandatory - The following modules require that students must participate in class work, practical work and project work and must achieve a minimum of 50% in these elements of continuous assessment in order to have satisfied the module learning outcomes: - Earthworks Analysis - Students may EXIT at this stage of the programme with a Higher Certificate in Science in Civil Engineering (Embedded Exit Award), provided they have achieved the required learning outcomes and have accumulated 120 credits. IT Carlow academic regulations apply.

Mandatory	
Module Code	Module Title
ANAL C2501	Earthworks Analysis
DRAW C2501	Civil Engineering Drawing + BIM
DSGN C2501	Structural Design I
ENGR C2502	Geotechnical Engineering II
MATH C2503	Engineering Mathematics II

Stage 3 / Semester 1

Elective Regulation

- All modules are mandatory - The following modules require that students must participate in class work, practical work and project work and must achieve a minimum of 50% in these elements of continuous assessment in order to have satisfied the module learning outcomes: - Engineering Geology I and Environmental Engineering I + Hydraulics - The final award mark for a student graduating with a BEng (Honours) in Civil Engineering will be calculated by taking 25% of year 3 GPA & 75% of year 4 GPA.

Mandatory	
Module Code	Module Title
DSGN C3501	Road Design
ENGR C3501	Engineering Geology I
ENVI C3501	Environmental Engineering I and Hydraulics
MATH C3501	Engineering Mathematics III
STRU C3501	Structural Analysis II

Stage 3 / Semester 2

Elective Regulation

- All modules are mandatory - The following modules require that students must participate in class work, practical work and project work and must achieve a minimum of 50% in these elements of continuous assessment in order to have satisfied the module learning outcomes: - Engineering Geology II and Hydraulics - The final award mark for a student graduating with a BEng (Honours) in Civil Engineering will be calculated by taking 25% of year 3 GPA & 75% of year 4 GPA.

Mandatory	
Module Code	Module Title
DSGN C3502	Structural Design and Analysis I
ENGR C3502	Engineering Geology II
MATH C3502	Mathematics and Statistics III
MECH C3501	Hydraulics
TRAF C3502	Highway and Traffic Eng I

Stage 4 / Semester 1

Elective Regulation

- All modules are mandatory - The following modules require that students must participate in class work, practical work and project work and must achieve a minimum of 50% in these elements of continuous assessment in order to have satisfied the module learning outcomes: - Geotechnical Engineering III and Environmental Hydraulics I - Engineer in Society and Work Placement Module is weighted (5 credits only) to allow for the fact that Work Placement portion is Pass/Fail. To pass the overall module the student must pass both the Engineer in Society and the Work Placement portions of the module so as to achieve the Module Learning Outcomes. - The Work Placement element of the Engineer in Society and Work Placement Module will occur during the summer between year 3 & 4, where students will be required to complete a minimum of 150 hours . - The final award mark for a student graduating with a BEng (Honours) in Civil Engineering will be calculated by taking 25% of year 3 GPA & 75% of year 4 GPA.

Mandatory	
Module Code	Module Title
DSGN C4501	Structural Design and Analysis II
ENGR C4501	Geotechnical Engineering III
ENVI C4501	Environmental Hydraulics I
MATH C4501	Engineering Mathematics IV
WKPL C4501	Engineer in Society + Work Placement

Stage 4 / Semester 2

Elective Regulation

- All modules are mandatory - The following modules require that students must participate in class work, practical work and project work and must achieve a minimum of 50% in these elements of continuous assessment in order to have satisfied the module learning outcomes: - Geotechnical Engineering IV and Environmental Hydraulics II - The final award mark for a student graduating with a BEng (Honours) in Civil Engineering will be calculated by taking 25% of year 3 GPA & 75% of year 4 GPA. - The Dissertation module is delivered on a year-long basis with the credits awarded at the end of Semester 8

Mandatory	
Module Code	Module Title
DISS C4501	Dissertation
DSGN C4502	Structural Design and Analysis III
ENGR C4502	Geotechnical Engineering IV
ENVI C4502	Environmental Hydraulics II
TRAF C4501	Highway and Traffic Eng II