



**APPROVED**

<b>Awards</b>	
Honours Bachelor Degree	
<b>Mode of Delivery:</b>	Full Time, ACCS
<b>No. of Semesters :</b>	8
<b>NFQ Level:</b>	8
<b>Programme Credits:</b>	240
<b>Language of Instruction:</b>	English
<b>Department:</b>	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	<a href="#">Engineering Drawing I</a>
MATH C1503	<a href="#">Mathematics and Statistics I</a>
PHYS C1501	<a href="#">Engineering Physics</a>
SCIE C1503	<a href="#">Material Science and Soil Mechanics</a>
TECH C1501	<a href="#">Civil Engineering Technology I</a>

## 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	<a href="#">Engineering Drawing II and Surveying And Setting Out I</a>
ENGR C1502	<a href="#">Engineering Mathematics I</a>
SCIE C1504	<a href="#">Engineering Chemistry</a>
SURV C1506	<a href="#">Quantity Surveying and Estimating</a>
TECH C1502	<a href="#">Civil Engineering Technology II</a>

## 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	<a href="#">Civil Engineering Economics and Management</a>
ENGR C2501	<a href="#">Geotechnical Engineering I</a>
MATH C2502	<a href="#">Mathematics and Statistics II</a>
STRU C2501	<a href="#">Structural Analysis I</a>
SURV C2501	<a href="#">Civil Engineering Drawing and Surveying</a>

## 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	<a href="#">Earthworks Analysis</a>
DRAW C2501	<a href="#">Civil Engineering Drawing + BIM</a>
DSGN C2501	<a href="#">Structural Design I</a>
ENGR C2502	<a href="#">Geotechnical Engineering II</a>
MATH C2503	<a href="#">Engineering Mathematics II</a>

### 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	<a href="#">Road Design</a>
ENGR C3501	<a href="#">Engineering Geology I</a>
ENVI C3501	<a href="#">Environmental Engineering I and Hydraulics</a>
MATH C3501	<a href="#">Engineering Mathematics III</a>
STRU C3501	<a href="#">Structural Analysis II</a>

### 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	<a href="#">Structural Design and Analysis I</a>
ENGR C3502	<a href="#">Engineering Geology II</a>
MATH C3502	<a href="#">Mathematics and Statistics III</a>
MECH C3501	<a href="#">Hydraulics</a>
TRAF C3502	<a href="#">Highway and Traffic Eng I</a>

## 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	<a href="#">Structural Design and Analysis II</a>
ENGR C4501	<a href="#">Geotechnical Engineering III</a>
ENVI C4501	<a href="#">Environmental Hydraulics I</a>
MATH C4501	<a href="#">Engineering Mathematics IV</a>
WKPL C4501	<a href="#">Engineer in Society + Work Placement</a>

## 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	<a href="#">Dissertation</a>
DSGN C4502	<a href="#">Structural Design and Analysis III</a>
ENGR C4502	<a href="#">Geotechnical Engineering IV</a>
ENVI C4502	<a href="#">Environmental Hydraulics II</a>
TRAF C4501	<a href="#">Highway and Traffic Eng II</a>