

<b>Module Title:</b>	Civil Engineering Project
<b>Language of Instruction:</b>	English
<b>Credits:</b>	10
<b>NFQ Level:</b>	7
<b>Module Delivered In</b>	No Programmes
<b>Teaching &amp; Learning Strategies:</b>	Lectures Project work Presentations Private study
<b>Module Aim:</b>	The aims of the module are: (1) to provide an interface with the working environment; (2) to encourage students to research an area of interest related to civil engineering; (3) to allow students to develop self, time and project management skills; (4) to encourage and improve the student's ability to present information both in written form and orally, using multimedia facilities; (5) to encourage students to develop an interest in a subject which might be continued in later studies.

Learning Outcomes	
<i>On successful completion of this module the learner should be able to:</i>	
LO1	to research a topic in a systematic and comprehensive way;
LO2	to assemble and present data in a logical format with a focus on high quality technical writing;
LO3	to complete a literature review, case-study, carry out laboratory test, design & prepare engineering drawings as appropriate for a particular topic;
LO4	where appropriate present design calculations, detailed drawings and make oral presentations on technical subjects and defend the subject in a logical, precise and coherent manner;
LO5	to develop contacts with external bodies/parties involved in current local Civil Engineering projects;

Pre-requisite learning
<b>Module Recommendations</b> <i>This is prior learning (or a practical skill) that is recommended before enrolment in this module.</i>
No recommendations listed
<b>Incompatible Modules</b> <i>These are modules which have learning outcomes that are too similar to the learning outcomes of this module.</i>
No incompatible modules listed
<b>Co-requisite Modules</b>
No Co-requisite modules listed
<b>Requirements</b> <i>This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed.</i>
No requirements listed

## Module Content & Assessment

### Indicative Content

#### Introduction

Projects involve an engineering investigation into a selected topic. As Civil Engineering is such a diverse subject, a wide range of subject matter is covered in any one year. The emphasis of the investigation may be a literature review of a particular topic, together with i. a case study highlighting the practical use of the theory, or ii. experimentation & assessment of results, or iii. analysis of a particular problem, or iv. a more in-depth literature review of that topic or v. the design and detailing of elements of a project. Students can undertake the project individually or in teams of two or three students.

#### Selecting a Project Topic

Students are encouraged to present a project topic that is of practical relevance in an area of Civil Engineering. This enable the student to obtain a useful insight into the process of addressing a real engineering problem, identifying possible solutions & assessing them, before a suitable solution is selected & presented to his or her client in the form of a detailed & accurate report.

#### Project Work and Submission

The overall content of the project can be summarised as: i. Literature review of the subject area in which the project is based. ii. Oral presentations to staff and peers on proposed topic. iii. Design & engineering drawings/laboratory test/case-study/critical analysis of in-depth literature review as appropriate. iii. Submission of a final technical report &/or design & engineering drawings as appropriate. iv. Oral presentations to staff and peers on final project submission.

#### Examples of Typical Projects

1) Critical appraisal of traffic flows on Carlow Inner Relief Road 2) Desk study for flood relief options for Graignamanagh 3) Effect of admixture X on concrete tensile strength

Assessment Breakdown	%
Project	100.00%

No Continuous Assessment

### Project

Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Project	Initial presentation of proposed topic	1,5	10.00	n/a
Project	Project submission documents	1,2,3,4,5	75.00	n/a
Project	Final presentation of proposed topic	1,2,3,4,5	15.00	n/a

No Practical

No End of Module Formal Examination

**SETU Carlow Campus reserves the right to alter the nature and timings of assessment**

**Module Workload**

<b>Workload: Full Time</b>		
<i>Workload Type</i>	<i>Frequency</i>	<i>Average Weekly Learner Workload</i>
Estimated Learner Hours	30 Weeks per Stage	8.00
Total Hours		240.00

