MGMT H3514: Environmental Management

Module Title:	Environmental Management
Language of Instruction:	English

Credits:	10

NFQ Level:	7

Module Delivered In	1 programme(s)

Teaching & Learning Strategies:	Lectures Practicals Projects Private study

Module Aim:	The aims of the subject are: (1) to study elements of natural climate (2) to study the factors that contribute to the quality of the environment in buildings.

Learning Outcomes	
On successful completion of this module the learner should be able to:	
LO1	to describe the effects of climate on the building fabric
LO2	to describe the effects of pollution on buildings and how these effects are measured and documented
LO3	to describe the health risks in buildings
LO4	to describe the factors that contribute to the quality of the environment in buildings and to evaluate the performance of buildings
LO5	to assess these factors in terms of current standards, regulations and practices.

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

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Module Content & Assessment

Indicative Content
(1) Climatology (8 hours lectures) (a) Energy budget (b) Air Masses (c) Local climate (d) Elements of climate (e) Climatic effects (f) Waste Management
(2) Environmental Pollution (12 hours lectures) (a) Types of pollution (b) Transport and behaviour of pollutants in the environment (c) Pollution of the internal environment (d) Radon (e) Sick building syndrome (f) Impact of nuclear energy on the environment
(3) Materials (10 hours lectures) (a) Environmental impact of building materials (b) Non-hazardous waste management, waste control strategies (c) Hazardous waste management (d) Irish waste management legislation
(4) Condensation (8 hours lectures, 12 hours practicals) (a) Cause (b) Effect and control of condensation
(5) Sound (12 hours lectures, 10 hours practicals) (a) Sound levels and transmission (b) Noise control legislation (c) Building acoustics and reverberation (d) Sound Insulation
(6) Light (10 hours lectures, 8 hours practicals) (a) Artificial and natural illumination (b) Lighting demands and levels

Assessment Breakdown	%
Project	40.00%
End of Module Formal Examination	60.00%

No Continuous Assessment

Project

Assessment Type	*Assessment Description*	*Outcome addressed*	*% of total*	*Assessment Date*
Project	Project 1	1,2,3	20.00	Sem 1 End
Project	Project 2	4,5	20.00	Sem 2 End

No Practical

End of Module Formal Examination

Assessment Type	*Assessment Description*	*Outcome addressed*	*% of total*	*Assessment Date*
Formal Exam	No Description	1,2,3,4,5	60.00	End-of-Semester

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

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Module Workload

Workload: Full Time		
Workload Type	*Frequency*	*Average Weekly Learner Workload*
Lecture	30 Weeks per Stage	3.00
Estimated Learner Hours	30 Weeks per Stage	2.33
	Total Hours	160.00

Module Delivered In

Programme Code	Programme	Semester	Delivery
CW_CMBSE_D	Bachelor of Science in Construction Management with Buildings Services	5	Mandatory