



## **Module Specification**

### **Environment 5**

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## Part 1: Information

**Module title:** Environment 5

**Module code:** UBPMXW-8-3

**Level:** Level 6

**For implementation from:** 2023-24

**UWE credit rating:** 8

**ECTS credit rating:** 4

**College:** Faculty of Environment & Technology

**School:** FET Dept of Architecture & Built Environ

**Partner institutions:** None

**Field:** Planning and Architecture

**Module type:** Module

**Pre-requisites:** None

**Excluded combinations:** None

**Co-requisites:** None

**Continuing professional development:** No

**Professional, statutory or regulatory body requirements:** None

## Part 2: Description

**Overview:** Pre-requisites: Passed the Part I CSA Examination / Exempted from SLIA Part I Professional Practice Examination

Transferable Skills:

Collect, analyse and manage data from a wide variety of sources.

Critical thinking, creative and innovative interpretation of the taught subject in relation to design

Work with limited or contradictory information  
Communicate effectively in a variety of formats  
Work independently and in groups.

**Features:** Not applicable

**Educational aims:** To create awareness of the relationship between the natural and built environment, and the implications of development activity on the natural environment; the necessity to adhere to green design principles to conserve the natural environment and the green building assessment systems and their implications on the design of buildings.

**Outline syllabus:** Main Topic 1 :

THE NATURAL ENVIRONMENT AND THE BUILT ENVIRONMENT (Term 1)

Global and Sri Lankan environmental implications

The implications of building development and the construction industry on the natural environment

Need for environmental stewardship, the role of the state, corporate sector and citizens

The Central Environmental Authority, Coast Conservation Authority, Mineral Sands and Mines Bureau – the roles and responsibilities as environmental agencies in Sri Lanka, regulations and standards,

The environmental impact assessment and the environmental license for development work in environmentally sensitive areas, the creation of buffer zones

Need for environmental Sensitivity -the role of the architect

Green design principles: the architectural interpretations - sustainable sites; water conservation (rain water harvesting & re-cycling); energy efficiency (understanding energy stimulations, use of

renewable energy); materials and resources (energy implications of materials, re-use and re-cycling of materials); solid waste management and re-cycling of waste, re-cycling depots; indoor

environmental conditions and comfort levels

Poverty and the environment

Main Topic 2 :

CARBON MANAGEMENT (Term 2)

The carbon cycle and the environment; climatic changes; carbon exchange, ideas of carbon management and carbon trading; tax and other incentives

Main Topic 3 :

GREEN BUILDING ASSESSMENT (Term 2 & 3)

The need for green building assessment and adherence to green building standards

Incentives for going green - branding and marketability of products, tax incentives, increased indoor comfort conditions and higher employee performance

The global green building assessment systems – the LEEDS (USA), BREEM (UK), BREAM (Canada), BEPAC (Canada), Green Star (Australia), HK- Beam (Hong Kong), Japan Green Building Guide etc.

Green building assessment in the SAARCH Region

The concepts and criteria in green building assessment

The points system and certification: categories of awards and accreditations

### Part 3: Teaching and learning methods

**Teaching and learning methods:** The delivery of this Module will be through: Lectures, Case Study based Guest Lectures, Field Visits, Seminars, Tutorials.

Contact Hours:

Lectures - 36

Practicals/Guest Lectures - none

Seminars - none

Tutorials - 12

Independent Learning - 30

Assessment - 12

Directed Learning - non

Total Notional Student Effort - 60 contact hours

**Module Learning outcomes:** On successful completion of this module students will achieve the following learning outcomes.

**MO1** Knowledge of the carbon cycle, carbon exchange and the environment.

**MO2** Knowledge of the current global and Sri Lankan environmental implications.

**MO3** Knowledge of the implications of building development on the natural environment.

**MO4** Knowledge of the environmental authorities in Sri Lanka and their roles and responsibilities.

**MO5** Knowledge of the responsibilities of the state, corporate sector and people in environmental conservation.

**MO6** Understanding of environmental conservation and green design principles.

**MO7** Understanding of carbon management and carbon trading.

**MO8** Understanding of green building assessment and architectural implications.

**MO9** Understanding of the architect's responsibilities in conserving the environment.

**MO10** Ability to integrate green design principles in the design of environmentally responsive architecture, and acknowledge how the green building assessment systems inform the design process.

**MO11** Ability to design in integration with the natural environment.

**MO12** Ability to engage in discussions on environment with other specialists and agencies for a greener built environment.

**Hours to be allocated:** 80

**Contact hours:**

Independent study/self-guided study = 20 hours

Face-to-face learning = 60 hours

Total = 80

**Reading list:** The reading list for this module can be accessed at [readinglists.uwe.ac.uk](https://uwe.rl.talis.com/modules/ubpmxw-8-3.html) via the following link <https://uwe.rl.talis.com/modules/ubpmxw-8-3.html>

## **Part 4: Assessment**

**Assessment strategy:** Class Reviews, Presentations & discussions & Written Examination

Environment Question Paper

2 Sections: Natural & the Built Environment ; Green Assessment Systems

3 Questions from each Section of which 2 should be answered totaling to 4 Questions..

Descriptive Questions, Questions based on Short Notes, Case Study or Project based Questions

Week 15 to Week 18

Type: Tutorial 1 T1

Instructions/Descriptions: Written Submission

Hours: 04 Contact Hours

Weighting: 20% of total 40%

Week 22Week 26

Type: Tutorial 2A T2 Green Building

Instructions/Descriptions: Seminar Presentation

Hours:04 Contact Hours

Weighting: 10% of total 40%

Week 28Week 30

Type: Tutorial 2B T3 Green Building

Instructions/Descriptions: Class Discussion after each Presentation

Hours: 04 Contact Hours 1

Weighting 10% of total 40%

JulyYear-end written examination60%

**Assessment tasks:**

**Examination (First Sit)**

Description: Written Examination

Weighting: 60 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO10, MO11, MO12, MO2, MO3, MO4, MO5, MO6, MO7, MO8, MO9

**Presentation (First Sit)**

Description: 1.Group Presentation

Weighting: 20 %

Final assessment: No

Group work: Yes

Learning outcomes tested: MO1, MO10, MO11, MO12, MO2, MO3, MO4, MO5, MO6, MO7, MO8, MO9

**Written Assignment (First Sit)**

Description: 2. Written submission

Weighting: 20 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1, MO10, MO11, MO12, MO2, MO3, MO4, MO5, MO6, MO7, MO8, MO9

**Examination (Resit)**

Description: Written Examination

Weighting: 60 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO10, MO11, MO12, MO2, MO3, MO4, MO5, MO6, MO7, MO8, MO9

**Presentation (Resit)**

Description: 1. Group Presentation previous years mark carried forward

Weighting: 20 %

Final assessment: No

Group work: Yes

Learning outcomes tested: MO1, MO10, MO11, MO12, MO2, MO3, MO4, MO5, MO6, MO7, MO8, MO9

**Written Assignment (Resit)**

Description: 2. Resubmission of Written submission for failed coursework or previous years mark for passed coursework

Weighting: 20 %

Final assessment: No

Group work: No



Learning outcomes tested: MO1, MO10, MO11, MO12, MO2, MO3, MO4, MO5, MO6, MO7, MO8, MO9

### **Part 5: Contributes towards**

This module contributes towards the following programmes of study:

Architecture and Environmental Design [SriLanka] MArch 2023-24