



Module Specification

Design 6

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Part 1: Information

Module title: Design 6

Module code: UBPMWX-12-M

Level: Level 7

For implementation from: 2023-24

UWE credit rating: 12

ECTS credit rating: 6

College: Faculty of Environment & Technology

School: FET Dept of Architecture & Built Environ

Partner institutions: City School of Architecture Sri Lanka

Field: Planning and Architecture

Module type: Module

Pre-requisites: Design 5 2023-24, Practical Training 5 2023-24

Excluded combinations: None

Co-requisites: None

Continuing professional development: No

Professional, statutory or regulatory body requirements: None

Part 2: Description

Overview: To engage students to cultivate a personal philosophy to architecture and design; and direct their focus to understand the complex issues related to architectural design in the regions of Sri Lanka with special emphasis on conservation and heritage management; and the generation of well-planned architectural design, addressing the necessity for energy conservation, integrating green design principles and passive systems in the design of a medium/high-rise building of approx. 30,000 sqft in total area, exploring the creation of space, quality

of space, and details of structure, use of materials, process of assembly and servicing.

Features: Not applicable

Educational aims: Collect, analyse and manage data from a wide variety of sources. Critical thinking, creative and innovative problem solving and logical reasoning Competency in common graphic and drawing (2D and 3D) software packages, hand drawing and technical drafting Work with limited or contradictory information Communicate effectively in a variety of formats Work independently and in groups.

Outline syllabus: Design Project 1 : HERITAGE & CONSERVATION IN THE REGIONS

Understanding the architectural characteristics of the selected regional city, its society, culture, climate, resources, economy and local crafts and technology; integrating principles and systems of conservation and heritage management; meet the specific spatial needs of its wider society, commensurate to the development and conservation guidelines of that city, the brief, the activities of users, and the activity patterns and their inter relationships. materials and details showing an understanding of the structure, process of assembly and the servicing of the building complex.

Projects :Museum, art galleries, civic centers, cultural centers, convention centers in an identified historically rich regional city such as Matara, Galle, Cultural Triangle, The creative, well planned design of a public, institutional facility comprising a complex of buildings, of approximately 30,000 sq ft. in total area, in a selected regional city of the country rich in heritage value.

Studies: Individual studies based of participatory group studies of the macro context.

Site Study: study of the site (sketches and photographic visuals of the physical, context, visual characteristics of the site; architectural characteristics; data collection – geographical location, climate, macro context and immediate neighbourhood, conserved buildings, accessibility; development potential and related development and conservation guide lines and visions; building regulations; resources, economy, local crafts and technology; interest for research and study of the historic area).

Study of Conservation Principles: principles and theories of conservation as relevant to the identified regional city

User Study: client's vision and objectives, users, socio-cultural context, behavioral

patterns of users, their spatial needs, research and study needs

Study of Activity Patterns: user activities, activity inter relationships, bubble diagrams of activity patterns, zoning diagrams, requirements of public mixed-use built complexes and related anthropometrics

Review of Works of Others: case studies, field visits and reviews, precedent studies

Design Project 2: GREEN DESIGN

Understanding the necessity to conserve resources and design for energy efficiency, climate responsiveness & environmental and economic sustainability of the building. meet the spatial needs of its users, commensurate to the development potential of the site, the brief, the activities of users, the activity patterns and their inter relationships, integrated with well thought out use of technology - materials, structure, process of assembly and servicing systems.

Projects :Corporate offices and other commercial use, buildings for the hospitality industry – hotels, hospitals, research and development centers . The creative, well planned design of a mixed use medium/high – rise building, of approximately 20 -30 storey - 300,000 sq ft. in total area in an urban context.

Studies: Individual studies based of participatory group studies of the macro context.

Site Study: study of the site (sketches and photographic visuals of the physical, visual characteristics of the site, streetscape, data collection – geographical location, Climate, macro context and immediate neighbourhood, accessibility; development potential and related development guide lines, building regulations.

User Study: client's vision and objectives, users, behavioral patterns of users, their spatial needs.

Study of Activity Patterns: user activities, activity inter relationships, bubble diagrams of activity patterns, zoning diagrams, requirements of mixed-use medium/high – rise buildings and related anthropometrics. Study of Green Design study of green design principles and energy conservation in buildings, passive principles: systems for water supply, energy use, recycling of waste, climate response, thermal comfort, health and safety in use of buildings. Study of use of technology in study of use of technology – materials (external envelope and internal use), medium/high –rise buildings: structural systems, process of assembly, building services, mechanical systems, vertical transportation, maintenance of the building, car parking and

servicing, security.

Review of Works of Others: case studies, field visits and reviews, precedent studies.

Part 3: Teaching and learning methods

Teaching and learning methods: The delivery of this Module will be through: Set Design Projects, Exercises in relation to Design Projects, Design Workshops, Guest Lectures, Organized Field Visits in relation to Design Projects, Discussions & Reviews of other works, Seminars.

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

MO1 Awareness of the regional cities of Sri Lanka and their related architectural characteristics.

MO2 Awareness of the energy and resource implications of buildings.

MO3 Knowledge of the different forces – (social, cultural, climate, resources, economy, local crafts and technology etc.) that create the architecture of the regions of Sri Lanka.

MO4 Knowledge of the necessity to conserve and preserve the architectural heritage of the country and the principles and systems adopted.

MO5 Knowledge of the architect's role in the conservation and restoration of buildings for the revival of historically rich cities.

MO6 Knowledge of the numerous agencies, authorities, stake holders, professionals and specialists who engage in conservation and heritage management of historic cities.

MO7 Knowledge of how technology informs the design of medium/high-rise buildings.

MO8 Understanding of how one's personal philosophy to architecture and design, orchestrates one's architecture.

MO9 Understanding of how architects contribute to the conservation and restoration of heritage buildings in a city, and the influence of architecture in the revival of these cities.

MO10 Understanding of the manipulation of form and space to create a complex composition of buildings and the technology and servicing needs of such built complexes.

MO11 Understanding of how architects contribute through design towards the conservation of resources and energy efficiency in buildings.

MO12 Understanding of how technology informs the design of medium/high-rise buildings.

MO13 Ability to create a comprehensive well planned design, understanding the numerous forces that drive the architecture of a selected regional city rich in history and intrinsic value; addressing the principles of conservation and heritage management to conserve, restore and re-vitalize a historic area by the design of a public, institutional facility comprising of a complex of buildings of approximately 30,000 sq ft. in total area, that meets the specific spatial needs of the wider society of the regional city, through context generated architectural design integrated with well thought out use of materials, structure, process of assembly and servicing systems commensurate to the development and conservation guidelines of that city.

MO14 Ability to create a comprehensive well planned design, understanding the necessity to conserve resources and the importance of energy efficiency in the design of a mixed –use medium/high-rise building of approximately 30,000 sq ft. in total area, integrated with well thought out use of technology - materials, structure, process of assembly and servicing systems.

Hours to be allocated: 120

Contact hours:

Independent study/self-guided study = 180 hours

Face-to-face learning = 180 hours

Total = 360

Reading list: The reading list for this module can be accessed at [readinglists.uwe.ac.uk](https://uwe.rl.talis.com/modules/ubpmwx-12-m.html) via the following link <https://uwe.rl.talis.com/modules/ubpmwx-12-m.html>

Part 4: Assessment

Assessment strategy: Design Project 1 : HERITAGE & CONSERVATION IN THE REGIONS

Formulation of Design Brief: interpretation of macro context and development, conservation guidelines to a project based design brief and architectural programme according to student bias

Submission Requirements: sketches and visuals of studies and information assimilation sketches of exploration and analysis conceptual sketches and models, massing within the context, building imagery, response to macro context, heritage values and conservation guidelines design: site plan, plan—all levels, roof plan, sections, elevations, scaled model, images of model perspectives and sketches of interior ambiance special details, details for climate responsiveness, use of materials, construction details, service integration, maintenance and management reviews and design report

Assessment: Presentation of studies, Concept Crit, 3-4 Interim Design Development Crits, Final Crit

Design Project 2: GREEN DESIGN

Formulation of Design Brief: interpretation of development potential of site and development guidelines to a project based design brief and architectural programme according to student bias.

Submission Requirements: sketches and visuals of studies and information assimilation sketches of exploration and analysis conceptual sketches and models, massing within the context, building imagery, response to macro context design: site plan, plan— all levels, roof plan, sections, elevations, scaled model, images of model perspectives and sketches of interior ambiance special details, details for climate responsiveness, use of materials, construction details, service integration, maintenance and management reviews and design report

Assessment: Presentation of studies, Concept Crit, 3-4 Interim Design Development Crits, Final Crit

Assessment tasks:

Report (First Sit)

Description: Building review

Weighting: 25 %

Final assessment: No

Group work: No

Learning outcomes tested:

Report (First Sit)

Description: Book review

Weighting: 25 %

Final assessment: Yes

Group work: No

Learning outcomes tested:

Portfolio (First Sit)

Description: Design element of portfolio

Weighting: 50 %

Final assessment: No

Group work: No

Learning outcomes tested:

Report (Resit)

Description: Book review

Weighting: 25 %

Final assessment: Yes

Group work: No

Learning outcomes tested:

Report (Resit)

Description: Building review

Weighting: 25 %

Final assessment: No

Group work: No

Learning outcomes tested:

Portfolio (Resit)

Description: Design element of portfolio

Weighting: 50 %

Final assessment: No

Group work: No

Learning outcomes tested:

Part 5: Contributes towards

This module contributes towards the following programmes of study:

Architecture and Environmental Design [SriLanka] MArch 2022-23