



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: College of Arts, Technology and Environment

School: CATE School of Architecture and Environment

Partner institutions: City School of Architecture Sri Lanka

Field: Planning and Architecture

Module type: Module

Pre-requisites: Design 5 2022-23, Practical Training 5 2022-23

Excluded combinations: None

Co-requisites: Architectural Studies 3 2023-24

Continuing professional development: No

Professional, statutory or regulatory body requirements: None

Part 2: Description

Overview: To engage students to self-discover and understand the complex issues that generate cities; of the necessity for urban visions and enhancement proposals for the development and re-generation of cities; of the importance of designing the public realm addressing communal spatial needs of the wider public in a city; of the importance of buildings and architecture in defining the quality of a city; of the participation of architects as team members in the design of cities; of the generation of well-planned architectural design, commensurate to the macro vision of a city in

catering to the needs of its civil society, through the integration of contextual forces of the project area and site, exploiting its relationship to the city, taking into account its physical and visual characteristics, environment and climate, accessibility, development potential and visions, users, the wider public, their behavioral and activity patterns and spatial needs, in the design of a mixed-use public facility of approx. 25,000 sq.ft in total area, exploring the creation of space, quality of space, and details of structure, use of materials, process of assembly and servicing; 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. 600,000 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: On completion of this Module students would have developed:

Awareness

of the relationship between the city, urbanity and architecture.

of the energy and resource implications of buildings.

Knowledge

of the complexity of cities and its driving forces.

of the necessity for a city to develop and change over time meeting the changing needs of its civil society, political ambitions and visions.

of the numerous agencies, authorities, stake holders, professionals and specialists who engage in the design of cities, its development and its management in public, private sector partnerships.

of the different principles and systems of technology and energy efficiency, adopted for the design of medium/high-rise buildings.

Understanding

of the complex forces that generate cities and their biases to a given civil society and their spatial needs.

of the importance of macro urban vision and enhancement proposals for the generation and re-development of cities.

of the importance of the public realm and public facilities in addressing the communal spatial needs of its society.

of how architecture contributes to the quality and spatial perception of a city.
of the importance of architectural design being commensurate with the macro vision of a city.

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

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

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

Ability

to critically analyze a macro urban vision for the re-development of a city and gain skills in public realm design addressing specific spatial needs of a wider society derived from the proposed macro vision, through context-generated architectural design of a public facility integrated with well-thought-out use of materials, structure, process of assembly and servicing systems.

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.

Outline syllabus: Design Project 1:

INTEGRATED APPROACH TO URBAN DESIGN AND ARCHITECTURE,
URBAN VISIONS FOR A CITY AND THE DESIGN OF THE PUBLIC REALM

Stage 1: Background Study (Participatory team exercise on live urban contextual study of an existing urban development plan.) [3 weeks]

Learning outcomes: Understanding the different driving factors of the urban context and studying of all architectural aspects related to the macro context.

Stage 2 : Critical Analysis of Theme-based Urban Vision and Proposals [3 weeks]

Learning outcomes: Analysing the assimilated information under appropriately identified urban themes, to synthesize a theme-based “vision” for the re-generation of that city and formulation of guidelines to continue with the architectural project.

Identifying action planning areas for locating a feasible development site.

Stage 3 : Architectural Design of the Public Realm - Small public building [8 weeks]

The design of a well-planned public facility of approximately 25,000 sq ft. in total area, which develops and restores a selected area of study above. [civic center, public market, transit center, public library, parking facility]

Learning outcomes: Addressing specific spatial needs of the wider society of the identified project city derived from the proposed theme-based urban vision and adequate comprehension of the enhancement proposals; through context-generated architectural design integrated with use of materials, structure, process of assembly and servicing systems. Respond to the envisaged character of the city and make meaningful spatial interventions to promote dialogue between city, building and users.

Modes of Study:

Stage 1: Background Study

Context model, area maps, land use studies and maps, activity maps, 3 dimensional studies, façade studies, photographic Studies.

Submission Requirements: PowerPoint/video presentations, mounted boards to a specified size.

Assessment: Interim Crit, Final Crit

Stage 2 : Critical Analysis of Theme-based Urban Visions and Proposals and identifying action planning areas for development.

Submission Requirements: PowerPoint/video presentations, mounted boards to a specified size.

Assessment: 2 Interim Crits, Final Crit separately for the analysis of the urban vision and enhancement/development proposals.

Stage 3 : Architectural Design of the Public Realm - Small public building

Suitable design interventions to the public realm within the envisaged “theme” based enhancement / development proposals for the city. The third stage would be to identify selected public realm within the proposed vision for the city and propose suitable design intervention for a context generated a small public building approximately 25,000 sq.ft.

Studies:

Identification of suitable design interventions to the public realm within the envisaged

“theme” based enhancement / development proposals for the city.

Submission Requirements: plans, sections, elevations, details and sketches

Assessment: Concept Crit, 2 Interim Design Development Crits, Final Crit

Design Project 2 : SUSTAINABLE DESIGN / GREEN DESIGN

Understanding the necessity to conserve resources and design for energy efficiency, climate responsiveness and 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 interrelationships, 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 guidelines, building regulations.

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

Study of Activity Patterns: user activities, activity interrelationships, 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.

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

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 and Reviews of other works, Seminars.

Contact Hours:

Lectures - 08 contact hours

Practicals (Studio) - 280 contact hours

Seminars - 08 contact hours

Tutorials - none

Independent Learning - 180 contact hours

Assessment - 64 contact hours

Directed Learning - none

Total Notional Student Effort - 360 contact hours

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

MO1 Awareness of the relationship between the city, urbanity and architecture

MO2 Awareness of the energy and resource implications of buildings.

MO3 Knowledge of the complexity of cities and its driving forces

MO4 Knowledge of the necessity for a city to develop and change over time meeting the changing needs of its civil society, political ambitions and visions.

MO5 Knowledge of the numerous agencies, authorities, stake holders, professionals and specialists who engage in the design of cities, its development and its management in public, private sector partnerships.

MO6 Knowledge of the different principles and systems of technology and energy efficiency, adopted for the design of medium/high-rise buildings.

MO7 Understanding of the complex forces that generate cities and their biases to a given civil society and their spatial needs

MO8 Understanding of the importance of macro urban vision and enhancement proposals for the generation and re-development of cities.

MO9 Understanding of the importance of the public realm and public facilities in addressing the communal spatial needs of its society.

MO10 Understanding of how architecture contributes to the quality and spatial perception of a city.

MO11 Understanding of the importance of architectural design being commensurate with the macro vision of a city.

MO12 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.

MO13 Understanding of how architects contribute through design towards the conservation of resources and energy efficiency in buildings.

MO14 Understanding of how technology informs the design of medium/high-rise buildings.

MO15 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.

MO16 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 = 360 hours

Total = 540

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: Portfolio 100% weighting.

Design Project 1:

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Design Project 2 : SUSTAINABLE DESIGN / GREEN DESIGN

Understanding the necessity to conserve resources and design for energy efficiency, climate responsiveness and 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 interrelationships, integrated with well thought out use of technology - materials, structure, process of assembly and servicing systems.

Assessment tasks:**Portfolio (First Sit)**

Description: Portfolio

Weighting: 100 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO10, MO11, MO12, MO13, MO14, MO15, MO16, MO2, MO3, MO4, MO5, MO6, MO7, MO8, MO9

Portfolio (Resit)

Description: Portfolio

Weighting: 100 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO10, MO11, MO12, MO13, MO14, MO15, MO16, 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 2022-23