# Module Specification

## Design 3

Version: 2023-24, v2.0, 01 Aug 2023

**Contents**

## Part 1: Information

**Module title:** Design 3

**Module code:** UBPMNX-64-3

**Level:** Level 6

**For implementation from:** 2023-24

**UWE credit rating:** 64

**ECTS credit rating:** 32

**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:** Transferable Skills:
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.

**Features:** Not applicable

**Educational aims:** To engage students to self discover and understand their architectural philosophies, strengths and weaknesses in order to focus on the generation of a coherent and comprehensive architectural design, commensurate to a design brief; integrating the 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 medium sized public building complex of ground + 3 /4 floors and approx. 15,000 sq.ft in total area, using sustainable technology as the Pre CDP Project and a medium scale multi-level public mixed-use building complex of ground + 3-4 floors and approx. 20,000 sq.ft in total area, as the CDP Project, understanding the creation of space, quality of space, and details of structure, use of materials, process of assembly and servicing

**Outline syllabus:** DESIGN
The module is taught as a sequence of studio projects. Each project brief provides a scenario that encourages critical evaluation, exploration and learning by the student. The studio projects are supported by lectures and workshops through which key skills and technical knowledge can be expanded.

Study of Project Area:
Context Study and Urban Vision of selected project area (Group Studies):
Urban Context:Context of project area within the city or town
Detailed ground plan/nolli map – details of project area indicating built and un-built spaces, green spaces, water bodies, public spaces, road network,nodes, pedestrian movements, street patterns, built form
land use patterns and activities
intensities of vehicular and pedestrian movements
gathering places, focal points, hierarchy of places
Morphology of project area: use, activity patterns, physical form,
architectural character, scale, proportions, sky lineimage of the place

(people, activity, natural and built fabric)

Development potential and related development controls and building regulations

Historical, Social & Culturalhistory of the area
Context:demographic profile – social profiles: ethnicity,
religion, age,gender, social networks, social hierarchy
cultural beliefs, traditions, values and aspirations

Economic Context: livelihood and economy trade net works – formal and informal sectorresources & human resources

Climate & Environment:micro climate – sun path, wind pattern and speed, air quality, rain fall, humidity, pollution levels green
environment and vegetation

Modes of Study:
Context model, area maps, land use studies, activity maps, 3 dimensional studies, façade studies, photographic Studies.

Study of Proposed Urban Vision Proposals of the Project Area (Group Studies):
Selection of activities for the project area in keeping with the social needs and development potential of the context.
Identification of spaces for activities.
Proposals for green lungs and conservation of the natural environment
Proposals for transport (public and private) and parking
Proposals for pedestrian movement
Proposals for servicing of the project area
Proposals for the architectural language for the project area (appropriate design, materials and technology)
Proposals for climate responsiveness (exploration of principles and details that could be used).

PRE COMPREHENSIVE DESIGN PROJECT

Industrial buildings, factories, education & research centers, science awareness centers, super markets. The creative design of a ground + 3 / 4 floor medium sized public facility of approx. 15,000 - 20,000 sq.ft in an urban context
Studies:Individual or Group
Site Study:in relation to the context study and urban vision proposals
Study on Renewable Energy Systems: the different renewable technologies: solar power, wind power, bio mass technology and energy, water re-cycling and collection through rain water harvesting, other passive and energy efficient principles, methods and materials, their use in buildings, integration of such technologies in buildings, the physical and spatial dimensions of such technologies, special requirements and related anthropometrics, related safety regulations.
User Study:users, behavioral patterns of users, their spatial needs
Study of Activity Patterns:user activities, activity inter relationships, bubble diagramsof activity patterns, zoning diagrams,
requirements ofpublic buildings, related anthropometrics
Review of Works of Others:case studies, field visits and reviews, precedent studies
Formulation of Design Brief:interpretation of the client's brief to a design brief and an architectural programme

COMPREHENSIVE DESIGN PROJECT
Arts, leisure, entertainment and recreational centers/complexes . The coherent and comprehensive design of a ground + 3 / 4 floor medium sized mixed – use public facility of approx. 20,000 - 30,000sq.ft in an urban or sub urban context

## 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.

Contact hours:
Lectures - 08

Practicals (field visits) - 420

Seminars - 12

Tutorials - none

Independent Learning - 160

Assessment - 40

Directed Learning - none

Total Notional Student Effort - 480 contact hours

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

**MO1** Awareness of the role of technology in architecture of the necessity to conserve energy and resources in the design, construction and operation of buildings

**MO2** Knowledge of the requirements of public buildings, servicing of public buildings and related anthropometrics.

**MO3** Knowledge of the specific needs of the wider public as related to the Pre CDP and Comprehensive Design Project and related anthropometrics.

**MO4** Knowledge of a systematic approach to the generation of architecture in line with the “Plan of Work”.

**MO5** Knowledge of how the structure, process of assembly and servicing could inform the design, construction and operation of ground + 3/4 floor multi-level buildings.

**MO6** Knowledge of the implications of cost on design choices.

**MO7** Knowledge of the process and generation of renewable energy and principles, strategies of energy conservation.

**MO8** Understanding of the formation of a design brief and architectural programme for design of buildings for the wider society.

**MO9** Understanding of the interdisciplinary approach to architecture and the necessity to work as teams with specialist consultants to form comprehensive designs.

**MO10** Understanding of the complex contextual forces that inform the generation of architectural form and their spatial interpretations.

**MO11** Understanding of the place of architecture in the context of a city and its process in enhancing the quality of the city.

**MO12** Understanding of the complex behavioral patterns of the wider society and need for communal living in the generation of architectural form and their spatial interpretations.

**MO13** Understanding of the complexities of designing mixed-use building complexes cateringto specific needs of a wider society.

**MO14** Understanding of renewable technology and passive systems in the generation of architectural form and their spatial interpretations.

**MO15** Ability to create architecture to understand better and identify one's architectural philosophy, strengths and weaknesses as a run up to the comprehensive design project, by designing a building for wider public use, as a facility within the city taking into consideration the urban visions and spatial needs of that city to design a multi-level ground + 3 / 4 floor public building complex of approximately 12,000 sq ft. in total area, in an urban / sub urban context, interpreting the integration of renewable technologies and passive systems in building design through design, materials, its structure, process of assembly and servicing .

**MO16** Ability to create coherent and comprehensive architecture, as a multi-level ground + 3 / 4 floor public, mixed-use building complex of approximately 20,000 sq ft. in total area in a urban or sub-urban context, interpreting specific spatial needs of a wider society and the character of the city, through context generated design, materials, its structure, process of assembly and servicing of the buildings.

**Hours to be allocated:** 640

**Contact hours:**

Independent study/self-guided study = 160 hours

Face-to-face learning = 480 hours

Total = 640

**Reading list:** The reading list for this module can be accessed at readinglists.uwe.ac.uk via the following link https://uwe.rl.talis.com/modules/ubpmnx-64-3.html

## Part 4: Assessment

**Assessment strategy:** DESIGN
Design Project 1 (Pre CDP Project)
Concept Crit, Interim Design Development ReviewsFinalCrit
40 %  Cont.Asst  60% Final Review

Design Project 2 (CDP Project )
Concept Crit, 4 Interim Design Development Crits, Final Crit
40 %  Cont.Asst  60% Final Review

CSA Part I ExaminationEligibility Assessment
40 %  Pre CDP & 60% CDP marks totaling to 100%

CSA Part I Examination Comprehensive Design Project External Crit
100% External review

**Assessment tasks:**

**Final Project** (First Sit)
Description: Comprehensive Design Project
Final review by the External panel
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

**Final Project** (Resit)

Description: Comprehensive Design Project

Final review by the External panel

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 [Oct][FT][SriLanka][3yrs] BArch (Hons) 2021-22