



Module Specification

Comprehensive Design Project 7

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Contents

Module Specification	1
Part 1: Information	2
Part 2: Description	2
Part 3: Teaching and learning methods	5
Part 4: Assessment.....	7
Part 5: Contributes towards	11

Part 1: Information

Module title: Comprehensive Design Project 7

Module code: UBPMXG-64-M

Level: Level 7

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: Design 6 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 focus on the generation of a coherent and comprehensive architectural design, commensurate to a complex design brief and architectural programme; addressing the contextual forces of the site, responding to its macro context and exploiting its development potential; meeting the spatial needs of a client or clientele addressing their activity and behavioural patterns, cultural values and aspirations, integrating the wider public as users of the building and responding to the environment and climate; in the design of a mixed-use building or

building complex of approx. 40,000 sq.ft in total area, exploring the creation of form, space, quality of space, and details integrating structure, use of materials, process of assembly and servicing as an interdisciplinary exercise.

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 : COMPREHENSIVE DESIGN PROJECT

The coherent and comprehensive synthesis of a complex architectural programme that has been conceived through research of contextual and societal forces of a selected project, into an architectural design for a building or complex of buildings having an approx. area of 40,000 sq.ft in an urban or sub urban context, with a philosophical approach and justification through exploration of options and conscious decision making. The generated architectural form, space and the quality of space for the given site should show an understanding of its macro context, its development strategies and vision; the users of the building, their activities, spatial needs, activity patterns and inter relationships; and should creatively orchestrate space to establish a spatial progression and hierarchy of spaces, form inside-outside connections and relationships to the landscape; and incorporate climate responsiveness; play of light and shade; colour, materials and details showing an interdisciplinary understanding of structure, process of assembly and the servicing of the buildings.

STUDIES TO BE CONDUCTED

Study of the Project: Client, Client's needs & Brief, Users, Site – Location and Site Implications, Financing of the Project, Implementation of the Project, Architectural Design Implications and Justification of the Project

Context Studies:

Macro Context:

Zoning and development regulations, Urbanscape, streetscape, patterns of buildings

and road networks, History and historical/conservation implications, Community and social implications, Climate/Environment and related impacts, Transport network and accessibility.

Micro or Immediate context of the Building:

Pertinent Building regulations, Immediate Neighbourhood and implications, Historical/Conservation/Theoretical Principles, Building – Community interaction, Building - Environment interaction, Access. Analysis and Summary of Contextual Forces

User Studies:

Primary Users, Secondary Users, Tertiary Users, Analysis of User Needs and their behavioural patterns and implications.

Design Brief and Analysis:

Interpretation of Client's brief, Interpretation of user needs, Interpretation of development potential of site, Draft architect's brief Zoning diagrams, Activity pattern diagrams, Bubble diagrams of spatial inter-relationships – horizontal and vertical planes, Finalisation of architect's brief.

Precedent Studies:

Study of Architectural language – architects and works of architects to identify your own language, Study of similar building typologies to identify genealogies and core strategies or principles, Study in relation to building needs, Study in relation to building – environment inter relationships, Study in relation to building – technology integration.

MASTER PLAN DESIGN (plans and models)

Master plan interventions, Building – context inter relationships, Massing as a contextual response

SCHEMATIC DESIGN (sketches, diagrams and models)

Form of Building/Abstract Imagery, Zoning, Focal spaces, Entrance Concepts for handling vehicles and pedestrians (the wider public and the users of the building), Concepts for structure, materials usage, construction techniques applicable, Concepts for servicing and maintenance of building, Concepts for climate response, Concepts for interior of building, Landscaping concepts, Concepts for lighting, Concepts for other special service requirements of the building. DESIGN Building

Design (sketches, drawings and models):

Spatial planning (spatial inter-relationships, spatial hierarchy, spatial progression,

spatial quality), plans and sections, Design of building – elevations, 3d perspectives

DETAILED DESIGN (sketches, drawings, models):

Special architectural features, Climate responsiveness, Integration of technologies,

Interior features and lighting landscaping

PART II EXAMINATION OF COMPREHENSIVE DESIGN PROJECT SUBMISSION REQUIREMENT

DESIGN SKETCH BOOK – showing design project development sketches & notes

DESIGN REPORT - A4 format or other (clarity is important, preferably with graphics)

Number of copies to Examiners will be indicated. Approx. 10 pages

Section 2 – Technology Report

Concept for Structure, Concept for Services, Concept for Lighting/Acoustics/other

Special Services etc. Concept for parking of vehicles, Concept for Climate

Responsiveness and Sustainability of Design, Ideas for Building Maintenance &

Management ** Set of Services Drawings can be included with report

Section 3 – Economic Feasibility Report

Preliminary Costing of Building, Comment on Financing of the Project.

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 Knowledge of the research methodologies and sources of information as pertinent to the comprehensive design project.

MO2 Knowledge of report formats and presentation techniques available to express concisely the project, project background, analysis, design decisions and the design.

MO3 Understanding of the necessity to formulate a complex design brief and architectural programme as the basis for design and advice to a client, after having thoroughly investigated the clients needs and the development potential of the site.

MO4 Understanding of the necessity to research, explore options and form considered judgments during the design process.

MO5 Understanding of the importance of the macro context and its development potential in the generation of architectural form and space.

MO6 Understanding of the importance of designing a building for the use of a client or clientele and meet their aspirations.

MO7 Understanding of the complexities of designing mixed-use buildings and building complexes having diverse activities.

MO8 Understanding of the interdisciplinary approach to architecture and the necessity to work with specialist consultants from allied and diverse fields.

MO9 Understanding of the importance of integrating the wider society as users of buildings.

MO10 Understanding of the implications of cost on design decisions.

MO11 Ability to create coherent and comprehensive architecture, as a mixed-use building or building complex of approximately 40,000 sq ft. in total area in a urban or sub-urban context, interpreting the needs of a client or clientele and their aspirations in a given site and context, generated through design and the integration of materials, structure, process of assembly and servicing of the buildings.

Hours to be allocated: 640

Contact hours:

Face-to-face learning = 406 hours

Total = 406

Reading list: The reading list for this module can be accessed at [readinglists.uwe.ac.uk](https://uwe.rl.talis.com/modules/ubpmxg-64-m.html) via the following link <https://uwe.rl.talis.com/modules/ubpmxg-64-m.html>

Part 4: Assessment

Assessment strategy: Projects :

The projects are to be selected individually and can range from infrastructure buildings for a city; buildings for public assembly; buildings for commercial use; buildings for entertainment/leisure/sports and recreation; buildings for the hospitality industry; industrial buildings; buildings for education and research; medical facilities; buildings for special user groups to residential buildings for special user groups etc. Urban or semi-urban context Mixed and wider public uses should be incorporated Should have macro- contextual responses Minimum 40,000 sq.feet in area Can be a complex of buildings or a single building Actual/near actual/experimental or visionary projects Projects to be discussed and finalized with Year Persons.

Approvals for project. The Comprehensive Design Project Proposal should be submitted for CSA / BAE approval within the first month of commencement of the academic year.

Comprehensive Design Project Proposal Format: approx 5-10 A4 Pages (illustrated) cover page should comprise- project title; Part II CDP Examination – (year of examination); name of student, school, year of study; date. contents page/ page nos.

Project - Description

Client – Description and Client's aspiration or vision

Site – site location, extent and boundaries, accessibility, other site parameters (physical and visual), zoning and development implications, features – natural and built, buildings to be retained or demolished, historical implications, social implications, climate and environment

Users – users and user implications. Development Control and related building regulations

Funding & Implementation of Project –funding for the project and mode of implementation

Client's Brief – total area, spaces and areas, different buildings or zones if any, special requirements if any

Architectural Design Implications and Justification for Project

CRITIQUES TO BE CONDUCTED

Project proposal (internal discussions/BAE approvals), Internal discussions for each of the studies – contextual studies, user studies, Architectural programme & design brief & precedent studies. Master plan proposals – 1 workshop and 1 critique, Schematic Designs – 2-3 workshops and 2 critiques, Building design – 3 workshops and 2 critiques, Detailed design – 3 workshops and 2 critiques, CSA Final Crit, External Examination

PART II EXAMINATION OF COMPREHENSIVE DESIGN PROJECT SUBMISSION REQUIREMENT

DRAWING LIST (not exceeding 15 -18 drawings)

Studies – Context, Site, User Studies with reference to urban and architectural character, historical character, cultural character, community linkages, environment and landscape, climate, access, pedestrian & vehicular linkages, infrastructure, Client, User/s and their needs and aspirations, Development Controls and Regulations, Existing Features etc.

Master Plan Proposals (if relevant)

Concept Sheet showing conceptualization of design (design exploration & justification - approach to the Design) and abstract imagery of built form

Design Brief, Activity/Bubble diagram, Zoning Diagrams, Area Schedule (3-4 sheets)

PLANS

Layout Plan – scale: to be decided by student with the Year Person

All Floor Plans below and above ground – scale to be decided by student with the Year Person / indication of floor levels

Roof Plan – scale to be decided by student with the Year Person (indication of direction of roof slope and location of down pipes) (6 sheets) ** Notes: plans should indicate activity or use of space, furniture arrangement, means of light & ventilation, circulation, position of doors & windows, solids & voids, materials, floor levels, section lines, directions of elevations, direction of staircases and escalators, appropriate line thicknesses, spaces above voids in dotted lines etc.)

SECTIONS

2 Sections of the Building and Site (a cross section and a longitudinal section) – scale to be decided by student with the Year Person. Sections should show inter-relationship of building to site, inter-relationships of spaces, spatial explorations Detailed Section of building in 1:50 or 1"=4'-0" to clearly show structure, materials, process of assembly, concepts for services. (3 sheets) ** Notes: Sections should

indicate context, floor levels, floor finishes, materials etc. in addition to the above stated, and where Details are given it should be indicated in the section.

ELEVATIONS & INTERNAL / EXTERNAL VIEWS

2 Elevations of the Building in relation to the Site – scale to be decided by student with the Year Person.

3 dimensional view of the built form in relation to the site.

At least Two (2)- 3 dimensional views of the interior spaces showing the quality of the space/s (2 -3 sheets) ** 3D walk –thro's are not essential ** Notes: the Elevations should indicate the language and the characteristic of the building, solid and void areas, materials, scale and proportion.

DETAILS

At least Five (5) details of special design features of the building explicitly showing the concept of the detail, construction process, materials used etc. Service Layouts (can be included in the Report) Special details showing climate responsiveness
Special details showing sustainability of the design

Details of Landscape / Interior (2-3 sheets)

SAMPLE BOARD

Sample board indicating finishes and materials.

MODELS

Working models showing design development

Model of the building showing the three dimensional built form and its relationship to the site and context in scale to be decided by student with Year Person. (north point, exam and project title, name of student, school name should be indicated in model)

Notes: All drawings to be A1. Format Drawings to be titled as follows: Exam Title: CSA Part II Examination (Year of Examination) – Comprehensive Design Project
Project Title Name of Student School name: City School of Architecture Date: Month/Year

Drawings should display: North Point, Scale

Assessment tasks:

Report (First Sit)

Description: 1. Detail Drawings- Marked under design

2. Design report- Marked under design

3. Sectional Model- Marked under design
4. Dissertation -Marked separately (see Module descriptor for architectural studies)

This is a Pass/Fail assessment.

Weighting:

Final assessment: No

Group work: No

Learning outcomes tested:

Project (First Sit)

Description: Comprehensive Design Project - Viva Voce

Weighting: 100 %

Final assessment: Yes

Group work: No

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

Report (Resit)

Description: 1. Detail Drawings- Marked under design

2. Design report- Marked under design

3. Sectional Model- Marked under design

4. Dissertation -Marked separately (see Module descriptor for architectural studies)

This is a Pass/Fail assessment.

Weighting:

Final assessment: No

Group work: No

Learning outcomes tested:

Project (Resit)

Description: Comprehensive Design Project - Viva Voce

Weighting: 100 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO10, MO11, 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 [Oct][FT][SriLanka][3yrs] MArch 2021-22