



Module Specification

Theory of Architecture 3

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Part 1: Information

Module title: Theory of Architecture 3

Module code: UBPMPX-5-3

Level: Level 6

For implementation from: 2023-24

UWE credit rating: 5

ECTS credit rating: 2.5

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: None

Excluded combinations: None

Co-requisites: None

Continuing professional development: No

Professional, statutory or regulatory body requirements: None

Part 2: Description

Overview: This Module will enable students to be introduced to the advanced building services of multi-level low rise residential and commercial buildings – Ground + 3 / 4 floors and to the concepts of supplying and distributing basic and advanced building services to a complex of inter-related buildings taking into consideration the point of supply, zoning for distribution of services, isolation for maintenance, storage etc.

Features: Not applicable

Educational aims: Transferable skills:

Collect, analyse and manage data from a wide variety of sources. Understanding creative interpretation of taught subject in design.

Work with limited or contradictory information.

Communicate effectively in a variety of formats.

Work independently and in groups.

Outline syllabus: The module will contribute to students' knowledge and understanding of:

**MAIN TOPIC 1 ADVANCED BUILDING SERVICES : GROUND + 3 /4 FLOORS
MULTI – LEVEL LOW RISE BUILDINGS SECURITY SYSTEMS (Term 1)**

Security Systems for ground + 3 / 4 storey multi-level low rise residential and commercial buildings.

Principles and systems used within property/main factors to be considered in the design/estimation/methods of communicating with specialist consultant and vendors to obtain design proposals and vendor information/safety devices/testing on completion/accessories and special needs.

MECHANICAL CONVEYANCES (Term 1)

Mechanical Conveyors for ground + 3/ 4 storey multi-level low rise residential and commercial buildings.

Principles and systems used/main factors to be considered in the design/estimation/methods of communicating with specialist consultant and vendors to obtain design proposals and vendor information/safety devices/testing on completion/accessories and special needs.

FIRE FIGHTING SYSTEMS (Term 1)

Fire Fighting Systems for ground + 3 / 4 storey multi-level low rise residential and commercial buildings.

Principles and systems used within property/main factors to be considered in the design/estimation/methods of communicating with specialist consultant and vendors

to obtain design proposals and vendor information/safety devices/testing on completion/accessories and special needs.

SOLID WASTE DISPOSAL (Term 1)

Solid waste disposal for ground + 3 / 4 storey multi-level low rise residential and commercial buildings - Principles and systems used for solid waste disposal within property/separation and re-cycling of waste, main factors to be considered in estimation/approvals from authorities/accessories and special needs.

BUILDING MANAGEMENT SYSTEMS (Term 1)

Building Management Systems for ground + 3/ 4 storey multi-level low rise residential and commercial buildings.

Principles and systems used for building management.

MAIN TOPIC 2 BUILDING SERVICES FOR A COMPLEX OF BUILDINGS (Term 2)

Introduce the basic and advanced building services (water supply, drainage, rain water disposal, electrical supply, air conditioning, fire safety and prevention) required for different usages in a complex of buildings looking at case studies of residential complexes, commercial complexes, administrative complexes; arts, leisure, entertainment, recreational/sports facilities; and the Integration of services with the architectural design.

the concepts used to service a complex of buildings – linear system, grid system, ring system etc;

the principles used for obtaining the services at the point of supply; the principles used for distribution of services/zoning for different usages;

the principles used for isolation of areas to carry out maintenance works;

the principles used for storage of services;

Understanding of the related regulations.

Part 3: Teaching and learning methods

Teaching and learning methods: The delivery of this Module will be through: Lectures, Visual Presentations, Individual/Group Projects, Seminars, Tutorials, Field Visits.

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

MO1 Awareness of the different types of building services required for different usages of multi-level low rise buildings.

MO2 Knowledge of the principles used for the supply and distribution of basic and advanced building services for multi-level low rise buildings.

MO3 Knowledge of the basic and advanced building services required for different usages of a complex of buildings – eg: residential complexes, commercial complexes, administrative complexes: arts, leisure, entertainment and recreational/sports complexes.

MO4 Understanding of the Co-ordination and Integration of the supply and distribution of basic and advanced building services for multi-level low rise residential and commercial buildings of ground + 3 /4 floors.

MO5 Understanding of the concepts used for the supply and distribution of basic and advanced building services to a complex of buildings.

MO6 Ability to Co-ordinate and Integrate the supply and distribution of basic and advanced building services and related technical aspects to the design of a complex of buildings.

Hours to be allocated: 50

Contact hours:

Independent study/self-guided study = 10 hours

Face-to-face learning = 40 hours

Total = 50

Reading list: The reading list for this module can be accessed at [readinglists.uwe.ac.uk](https://uwe.rl.talis.com/modules/ubpmpx-5-3.html) via the following link <https://uwe.rl.talis.com/modules/ubpmpx-5-3.html>

Part 4: Assessment

Assessment strategy: Portfolio of work. The assessment on this module is an iterative process that students undertake as a series of tasks that allow them to focus on different aspects of the teaching and learning building on gradual feedback to create a portfolio of work as the module progresses.

Assessment tasks:

Portfolio (First Sit)

Description: Design process - mind map 10%

Concept generators and critique. concept formation, precedents, concept sketches and design synthesis, peer critique, forming analytical questions - group project and 2 tasks 20%

Man and his environment, Axis mundi, cosmic alliance in architecture, meaning, symbology, sacred and profane space and beliefs and behavior of man 20%

Architectural Theoreticians 50%

Weighting: 100 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO4, MO5, MO6

Portfolio (Resit)

Description: Design process - mind map 10%

Concept generators and critique. concept formation, precedents, concept sketches and design synthesis, peer critique, forming analytical questions - group project and 2 tasks 20%

Man and his environment, Axis mundi, cosmic alliance in architecture, meaning,

symbolology, sacred and profane space and beliefs and behavior of man 20%

Architectural Theoreticians 50%

Weighting: 100 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO4, MO5, MO6

Part 5: Contributes towards

This module contributes towards the following programmes of study:

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