

MODULE CODE: M4X01970
TITLE: ARCHITECTURE STUDIO 1 B: SPACE & FORM
DATED: 17/03/2015

LEVEL: 4
CREDITS: 20

JACS CODE: K100

ARB/RIBA criteria addressed in this module	
Ability to create architectural designs that satisfy both aesthetic and technical requirements	GC1
prepare and present building design projects of diverse scale, complexity, and type in a variety of contexts, using a range of media, and in response to a brief;	1.1
develop a conceptual and critical approach to architectural design that integrates and satisfies the aesthetic aspects of a building and the technical requirements of its construction and the needs of the user	1.3
Knowledge of the fine arts as an influence on the quality of architectural design.	GC3
how the theories, practices and technologies of the arts influence architectural design;	3.1
the creative application of the fine arts and their relevance and impact on architecture;	3.2
the creative application of such work to studio design projects, in terms of their conceptualisation and representation.	3.3
Understanding of the relationship between people and buildings, and between buildings and their environment, and the need to relate buildings and the spaces between them to human needs and scale.	GC5
the needs and aspirations of building users;	5.1
the impact of buildings on the environment, and the precepts of sustainable design;	5.2
the way in which buildings fit into their local context.	5.3
Understanding of the methods of investigation and preparation of the brief for a design project.	GC7
the need to critically review precedents relevant to the function, organisation and technological strategy of design proposals;	7.1
Understanding of the structural design, constructional and engineering problems associated with building design.	GC8
the investigation, critical appraisal and selection of alternative structural, constructional and material systems relevant to architectural design;	8.1
strategies for building construction, and ability to integrate knowledge of structural principles and construction techniques;	8.2
the physical properties and characteristics of building materials, components and systems, and the environmental impact of specification choices.	8.3
Adequate knowledge of physical problems and technologies and the function of buildings so as to provide them with internal conditions of comfort and protection against the climate.	GC9
principles associated with designing optimum visual, thermal and acoustic environments;	9.1
systems for environmental comfort realised within relevant precepts of sustainable design;	9.2
strategies for building services, and ability to integrate these in a design project.	9.3
GRADUATE ATTRIBUTES AT PART 1 LEVEL	
ability to identify individual learning needs and understand the personal responsibility required for further professional education.	6

AIM(S)

- To Introduce students to the core skill of the architect – the design of objects, buildings and spaces to meet the needs and aspirations of people – with an emphasis on form, space, order and experiential qualities of places and buildings.
- To develop the student's design ability through project work that emphasises spatial, formal, tactile and acoustic characteristics of buildings and places
- To develop the student's understanding the character and quality of buildings through the analysis of precedent

LEARNING OUTCOMES

Upon the successful completion of this module, the student should be able to demonstrate the ability to:

1. Explain the organising concept for a design proposition verbally and in drawings and/or physical models.
2. Analyse a design brief and its physical and social context differentiating between potentially conflicting requirements
3. Design a small building that responds to the functional requirements of a clearly defined brief with a well-ordered architectural solution

INDICATIVE CONTENT

This module will be taught in parallel with Architecture Studio 1 C. There will be an integrated sequence of design and design analysis projects submitted in a single portfolio with one third of the marks assigned to projects set in each of the three modules. The assignments associated with Architecture Studio 1B may include

- a series of design exercises exploring space, form, material , colour, texture and sound
- design of an interior space in response to a defined brief
- alteration or adaption of an existing space in response to a defined brief
- design of a dwelling for a specified individual or group in real context developed in detail

LEARNING AND TEACHING STRATEGY

In this module students build on the basic design skills acquired in Architecture Studio 1A. It is taught in parallel with Architecture Studio 1C. In a varied sequence of projects students apply observational and analytical methods to further develop an understanding of the nature of architectural space, form and place-making. Students respond (usually individually but sometimes in groups) to a brief or proposition. Ideas are developed using a variety of graphic and computer-based methods supported by discussion with tutors, fellow students and others. Proposals are presented using drawings, sketchbooks, physical models and digital images, often accompanied by explanatory text.

Scheduled learning: Regular studio sessions include: group project briefings, studio lectures, workshops, site visits, group tutorial sessions. Formative feedback is continuous in tutorial session and reviews in which students present their work to fellow students, tutors and sometimes visitors.

Independent learning. Between scheduled studio sessions students work independently both individually and collaboratively to develop their design ideas, carry out project related research and read relevant texts.

The allocation of teaching to deliver the module is:

Activity type	Hours	Percentage
Scheduled learning	60	30
Independent learning	140	70
Placement learning		
TOTAL	200	100%

ASSESSMENT

Assessment Component 1 – 100%

Portfolio of design project work

Assessment Summary

Activity type	Percentage
Written exam	
Coursework (portfolio)	100%
Practical	
TOTAL	100%

EDUCATION FOR SUSTAINABLE DEVELOPMENT (ESD)

Does the module contribute to ESD?	Yes
This introductory design module focuses on concepts of space and form in architecture, which includes basic sustainable design principles of response to context, the use of natural light and the shaping of space to meet human needs.	

BIBLIOGRAPHY

Essential

CHING, F. 2007 *Architecture: Form, Space, Order*. Hoboken NJ, Wiley

UNWIN, S. 2012 *Exercises in Architecture*. London: Routledge

Recommended

Additional titles will be recommended relevant to individual design projects

ALEXANDER, C. et al 1977 *A Pattern Language: Towns, Buildings, Construction*. New York, Oxford UP

BACHELARD, G. 2014 *The Poetics of Space (with new introduction and foreword)*. New York, Penguin

BUTTERFIELD, J. 1993 *The Art of Light and Space* New York, Abbeville

HERTZBERGER, H. 2005. *Lessons for Students in Architecture*. 5th revised edition, Rotterdam, 010

MOORE, C. et al 1974 *The Place of Houses*. London University of California Press

RASMUSSEN, S. E., 1978. *Experiencing Architecture*. 2nd ed. Cambridge MA, MIT Press

WESTON, R. 2003 *Materials, Form and Architecture*. London: Laurence King

ZUMTHOR, P. 2010 *Thinking Architecture*. 3rd edition, Basel: Birkhauser

UNWIN, S. 1997 *Analysing Architecture*. London, Routledge

Background

BADEN-POWELL, C. 2011 *The Architect's Pocket Book 4th ed*. Oxford, Architectural Press

LITTLEFIELD, D (ed) 2008 *Metric Handbook: Planning & Design Data* 3rd edition. London: Elsevier

OLIVER, P (ed). 1997 *Encyclopedia of Vernacular Architecture of the World* Cambridge, Cambridge University Press,

WESTON, R. 2004 *Plans, Sections and Elevations: Key Buildings of the 20th Century*. London: Laurence King.
ZELL, M. 2010 *The Architectural Drawing Course* London. Thames & Hudson

Journals

Architects Journal
Building Design
Architecture Today

Websites

www.architecture.com
www.architectsjournal.co.uk
www.bdonline.co.uk