

MODULE CODE: M4X01969
TITLE: ARCHITECTURE STUDIO 1 A : DESIGN SKILLS
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
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
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
GRADUATE ATTRIBUTES AT PART 1 LEVEL	
ability to apply a range of communication methods and media to present design proposals clearly and effectively;	2

AIM(S)

- To introduce students to the basic skills of the architect – hand drawing, physical model making and the use of computers for drawing, modelling and image manipulation
- To provide students with a grounding in the conventions of architectural representation and the methods of gathering and recording information on existing building fabric and topography.
- To introduce student to the techniques of representation and interpretation used in the visual arts

LEARNING OUTCOMES

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

1. Execute clear and coherent manual and computer representations of three-dimensional space and form using the conventions of orthographic and perspective projection
2. Apply representational skills in drawing and physical model making with accuracy and care to explain the technical aspects and formal and material qualities in the design of a small building and its constituent elements
3. Accurately measure a simple existing three-dimensional structure and record its main structural and constructional elements

INDICATIVE CONTENT

This module will be taught in the first semester and prepares students to undertake Architecture Studio 1B and 1C in the second semester. The assignments may include

- design exercises aimed at developing the skills of freehand drawing and representing of objects and spaces using the conventions of architectural drawing
- exercises requiring the construction of physical models
- exercises requiring measuring and recording existing buildings and spaces
- exercises in the use of computer aided design and image manipulation

LEARNING AND TEACHING STRATEGY

In this module students take the first steps in the development of their core architectural design skills through a process of learning-by-doing. In a varied sequence of projects students apply a range of observational and analytical methods and begin to develop an understanding of the application of technical knowledge to design situations. 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
Although this is primarily a skills module that focuses on the techniques of architectural representation (drawings, models and digital techniques) it does include design project work that will introduce students to some of the basic concepts of sustainable design – economy of means, appropriate technology and responsible sourcing of material	

BIBLIOGRAPHY

Essential

CHING, F. 2009 *Architectural Graphics*. Hoboken NJ, Wiley

ZELL, M. 2010 *The Architectural Drawing Course* London. Thames & Hudson

Recommended

Additional titles will be recommended relevant to individual design projects

BALLANTYNE, A. 2002 *Architecture: a very short introduction*. Oxford: Oxford University Press

BINGHAM, N. 2012 *100 Years of Architectural Drawing* London, Laurence King

EDWARDS, B. 1993 *Drawing on the Right Side of the Brain* London, Harper Collins

FARRELLY, L. 2008 *Representational Techniques* Lausanne, AVA

MAKSTUTIS, G. 2010 *Architecture*. London, Laurence King

WESTON R. 2004 *Plans, Sections and Elevations: Key buildings of the twentieth century* London, Laurence King

Background

CONWAY, H. & ROENISCH, R. 1994 *Understanding Architecture*. London, Routledge.

HUNT, T., 2003. *Tony Hunt's Structures Notebook. 2nd ed.* London, Architectural Press

JONES, W. 2011 *Architects' Sketches* London, Thames & Hudson

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

Journals

Architects Journal

Building Design

Architecture Today

Websites

www.architecture.com

www.architectsjournal.co.uk

www.bdonline.co.uk