

Date and details of revision:

MODULE SPECIFICATION PROFORMA

Version no:

Module code:	AUR348					
Module Title:	Graphical Communication in the Built Environment					
Level:	3	Credit Value:		20		
Cost Centre(s):	GABE	JACS3 code:		K400		
Faculty:	Faculty of Arts, S and Technology	Science	Module Leader:	Gareth Carr		
Scheduled learn	ing and teaching h	ours				40hrs
Guided independ	dent study		160 hrs			
Placement			0 hrs			
Module duratio	n (total hours)					200 hrs
						200 10
Programme(s)	in which to be of	fered			Core	Option
BSc (Hons) Architectural Design Technology (with Foundation Year) SUBJECT TO VALIDATION				✓		
BSc (Hons) Construction Management (with Foundation Year) SUBJECT TO VALIDATION				✓		
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Pre-requisites						
none						
Office use only Initial approval: With effect from:	12/12/2018				Versi	on no:1



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Module Aims

The principal aim of this module is to provide students with an introduction to the standards and conventions of graphical communication used in the design and construction of buildings and civil infrastructure. The construction industry recognises particular drawn and representational conventions, and it is important that students become familiar with those standards that have been adopted by the industry.

Two further aims of this module are to provide the student with experience in the interpretation of exemplar graphical information, and to provide opportunities for students to prepare their own drawings and models in line with those standards

Intended Learning Outcomes

Kον	skills	for	amn	lova	hility
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KS1	Written, oral and media communication skills
KS2	Leadership, team working and networking skills
KS3	Opportunity, creativity and problem solving skills
KS4	Information technology skills and digital literacy
KS5	Information management skills
KS6	Research skills
KS7	Intercultural and sustainability skills
KS8	Career management skills

KS9 Learning to learn (managing personal and professional development, self-

management)

Numeracy KS10

At	the end of this module, students will be able to	Key Skills		
1	Prepare and present original graphical information, drawn and modelled using industry-recognised conventions and	KS1	KS3	
ı	techniques.	KS5	KS6	
2	Prepare and present original graphical information to		KS5	
	appropriate scales and within acceptable tolerances of dimensional accuracy.	KS10		
3	Prepare and present original graphical information using a	KS1	KS3	
S wi	wide range of media, materials and technique.	KS9		
4	Structure and present a complete portfolio of original	KS1	KS3	
	graphical information in a logical and ordered way	KS5	KS9	

Transferable skills and other attributes

This module will provide students with an understanding of the interpretation and use of drawings and models in a wide range of construction-related contexts. This will cover both their academic study and preparation for employment within the Construction Industry.

The utilisation of drawings and models as vehicles of communication will also develop an individual's confidence to explain ideas and technical content to peers and associates involved in the design and construction of buildings and civil infrastructure.



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Derogations	
None	

Assessment:

1. A portfolio of original sketches, drawings and models that communicate concepts and technologies through recognised conventions, scales and presentational techniques

Assessment number	Learning Outcomes to be met	Type of assessment	Weighting (%)	Duration (if exam)	Word count (or equivalent if appropriate)
1	1,2,3 & 4	Portfolio	100	n/a	2,500

Learning and Teaching Strategies:

This module will provide opportunities for students to study standards and exemplars in the construction industry, and learn through the physical preparation of drawings and models that communicate conceptual ideas and technical content.

It is appropriate that students share in the drawing studio experience so that ideas and techniques become accepted components of learning and encourage individual experimentation with media and materials. In this respect, delivery will incorporate 'in the round' group tutorial sessions as far as possible, to facilitate a broad-ranging dimension to the student learning experience.

Whilst the learning and teaching strategy is therefore open and diverse in its approach to encouraging the student to develop an appropriate portfolio for assessment, its content should nonetheless be the product of the student's own preferences and presentational competencies.



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Syllabus outline:

'Doodling and sketching'

'doodling' – informal communication of ideas and concepts

'sketching' – sketching from observation;

sketching towards explanation

Scale and representation in design and construction drawings

'design drawings' and 'working drawings'

conventions of scale and graphical representation in 2-dimensional drawings:

topography and maps; locations and sites;

general arrangements: dimensional co-ordination, grids, plans,

sections and elevations

details: material and component assemblies

titles, attributes, revision and issue of drawings

3-dimensional drawings and models

Common viewpoint drawings including perspective simple architectural modelling

Rendering and presentation

materials, media, layout and composition rendering, colour, text and annotation exhibition, display and presentation photography as a tool in the built environment

Bibliography:

Essential reading

BSI – Construction Drawing Practice, BS1192 Part 5 (British Standards Institute, 1999) ISBN 0580295141

Ching F D K – Architectural Graphics (John Wiley & Sons Inc, 2002) ISBN 0471209066

Fukai D – *Graphic Communications in Construction* (Prentice Hall, 2002) ISBN 0130605522

Other indicative reading

Hill M – Small Practices – A Guide to Drawn Information (RIBA Publications, 1999) ISBN 1859460518

Reekie F and McCarthy A – Reekie's Architectural Drawing (Architectural Press, 1995) ISBN 0340573244