MODULE SPECIFICATION PROFORMA

Module code:	AUR347

Module Title:	Number in the Built Environment

Level:	3	**Credit Value:**	20

Cost Centre(s):	GABE	**JACS3 code**:	K400

Faculty:	Faculty of Arts, Science and Technology	**Module Leader:**	Louise Duff

Scheduled learning and teaching hours	40 hrs
Guided independent study	160 hrs
Placement	0 hrs
Module duration (total hours)	200 hrs

Programme(s) in which to be offered	Core	Option
BSc (Hons) Architectural Design Technology (with Foundation Year) SUBJECT TO VALIDATION	✓	☐
BSc (Hons) Construction Management (with Foundation Year) SUBJECT TO VALIDATION	✓	☐

Pre-requisites
None

Office use only
Initial approval: 12/12/2018 Version no:1
With effect from: 01/09/2019
Date and details of revision: Version no:

Wrexham glyndŵr UNIVERSITY

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Module Aims
To enable students to apply numeracy techniques and methods to solve construction related calculations. Students will be able to select and apply a variety of mathematical, graphical and statistical techniques to solve practical construction problems.

Intended Learning Outcomes

Key skills for employability

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)
KS10	Numeracy

At the end of this module, students will be able to		Key Skills	
1	Be able to use basic numerical techniques and methods to solve construction related calculations	KS3	KS10
		KS5	
2	Be able to select and apply mathematical techniques correctly to solve practical construction problems involving perimeters and volumes.	KS3	KS10
		KS5	
3	Be able to select and apply shape and area techniques correctly to solve practical construction problems.	KS3	KS10
		KS5	
4	Be able to select and apply graphical and statistical techniques correctly to solve practical construction problems.	KS3	KS4
		KS5	KS10

Transferable skills and other attributes

Effective numeric skills
Ability to analyse statistical data
Ability to present data coherently and effectively

Derogations

None

Assessment:

A number of worksheets to be undertaken to show problem solving abilities in Built Environment scenarios

Assessment number	Learning Outcomes to be met	Type of assessment	Weighting (%)	Duration (if exam)	Word count (or equivalent if appropriate)
1	1 & 2	Coursework	50	n/a	1,250
2	3 & 4	Coursework	50	n/a	1,250

Learning and Teaching Strategies:

A series of key lectures demonstrating theory, worked examples and practice in the development of skills in maths and statistics.

Syllabus outline:

Calculator functions,
Introduction to techniques and methods to allow solving problems relating to monetary issues and space appraisal.
Simple measurement of areas and volumes
Creating graphs.
Processing data by statistical means

Bibliography:

Essential reading

Bird, May, (1994) Technician Mathematics 2, Pearman
Greer, Taylor, (1994) Mathematics for Technicians, Nelson Thornes
Tourret,A. (1997) Applying Maths in Construction, Architectural Press

Other indicative reading