

MATH H1507: Applied Mathematics

Module Title:			Applied Mathematics		
Credits: 5		5			
NFQ Level: 6					
Module Delivered In			1 programme(s)		
Teaching & Learning Strategies:			Lectures Tutorials Private study		
Module Aim:			The aims of the module are to equip the student with the mathematical skills required for the study of t course.		
Learning Ou	tcomes				
On successfu	I completio	n of th	is module the learner should be able to:		
LO1	O1 Use algebraic methods to solve and manipulate equations.				
LO2	Plot and interpret linear and non linear functions and extract information from the plots.				
LO3	Evaluate distances, angles and areas for right angled and non right angled triangles.				
LO4	Produce statistical graphs including histograms and ogives and calculate Mode, Mean, Median and the quartile values.				
LO5	O5 Calculate the area and volume of regular shapes and to use algebra to determine parameters and to derive units for parameters from expressions.				
Pre-requisite	e learning				
Module Recommendations This is prior learning (or a practical skill) that is recommended before enrolment in this module.					
No recomme	ndations list	ted			
Incompatible Modules These are modules which have learning outcomes that are too similar to the learning outcomes of this module.					
No incompatible modules listed					
Co-requisite Modules					
No Co-requis	No Co-requisite modules listed				
Requirements This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed.					
No requirements listed					



MATH H1507: Applied **Mathematics**

Module Content & Assessment

Indicative Content

(1) COMPUTATION: (30 hours)

(a) Logs & Indices (b) Transposition of formulae (c) Fractions (d) Units and derived units (e) Area & volume (f) Approximation of area & Volume.

(2) EQUATIONS: (20 Hours)

(a) Graphed representations of linear (b) quadratic and cubic equations. (c) Graphical and numerical simultaneous solutions.

(3) TRIGONOMETRY: (20 hours) (a) Solution of right angled triangles, (b) Unit circle, (c) Radian measure, (d) Solving triangles with the sin & cosine rules, (e) Area of triangles.

(4) STATISTICS: (20 hours) (a) Statistical graphs (Bar chart, Pie-chart, Ogive, Histogram), (b) Notation, (c) Calculation of central tendency & dispersion.

Assessment Breakdown	%
Continuous Assessment	40.00%
End of Module Formal Examination	60.00%

Continuous Assessment Assessment Type Assessment Description Outcome % of Assessment addressed total Date Other 1,2,3,4,5 40.00 n/a Continuous Assessment

No Project

No Practical

End of Module Formal Examination								
	Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date			
	Formal Exam	No Description	1,2,3,4,5	60.00	End-of-Semester			

SETU Carlow Campus reserves the right to alter the nature and timings of assessment



MATH H1507: Applied Mathematics

Module Workload

Workload: Full Time				
Workload Type	Frequency	Average Weekly Learner Workload		
Lecture	30 Weeks per Stage	3.00		
Estimated Learner Hours	30 Weeks per Stage	3.00		
	Total Hours	180.00		

Module Delivered In						
Programme Code	Programme	Semester	Delivery			
r rogramme oode	Trogramme	ocificator	Denvery			
CW_CMBSE_D	Bachelor of Science in Construction Management with Buildings Services	1	Mandatory			