

MATH H1507: Applied Mathematics

Module Title:	Applied Mathematics				
Credits: 5					
NFQ Level: 6					
Module Delivered In	No Programmes				
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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 the course.				
Learning Outcomes					
On successful completion of	f this module the learner should be able to:				
LO1 Use algebraic	methods to solve and manipulate equations.				
LO2 Plot and inter	pret linear and non linear functions and extract information from the plots.				
LO3 Evaluate dista	O3 Evaluate distances, angles and areas for right angled and non right angled triangles.				
LO4 Produce stati	stical graphs including histograms and ogives and calculate Mode, Mean, Median and the quartile values.				
	rea and volume of regular shapes and to use algebra to determine parameters and to derive units for m expressions.				
Pre-requisite learning					
Module Recommendations This is prior learning (or a practical skill) that is recommended before enrolment in this module.					
No recommendations listed					
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-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	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

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

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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



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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		