BUSS C1703: Investment Maths

Module Title:	Investment Maths
Language of Instruction:	English

Credits:	5

NFQ Level:	6

Module Delivered In	5 programme(s)

Teaching & Learning Strategies:	Classes with be practical in focus, using example questions to illustrate key points and theories. Students will be expected to complete work-sheets in their independent learning time to re-enforce understanding of key issues

Module Aim:	To give a thorough grounding in the mathematics required for the successful understanding and solution of business problems.

Learning Outcomes	
On successful completion of this module the learner should be able to:	
LO1	Apply mathematical skills to solve numerical problems in the area of business
LO2	Solve financial mathematical problems and manipulate formula, as appropriate
LO3	Appraise capital investment projects on the basis of Net Present Value and Internal Rate of Return

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

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Module Content & Assessment

Indicative Content
Mathematics of Finance • Simple and compound interest • Present and Future Value • Discounting • Arithmetic series and their application to regular investments • Annuities and their Present Value • Straight line and reducing balance methods of depreciation
Capital Investment Appraisal • Net Present Value of investments • Internal Rate of Return • Straight line and reducing balance methods of depreciation
Equations • Linear and quadratic equations and their graphs • Solving simultaneous equations • Simultaneous inequalities • Graphing inequalities • Graphical solution of Linear Programming problems
Calculus • Differentiation and Applications/Rules of Differentiation • Maximum and Minimum points • Graphing Economic Functions • Business Applications: • Marginal Cost, Marginal Revenue, Profit Maximisation

Assessment Breakdown	%
Continuous Assessment	100.00%

Continuous Assessment

Assessment Type	*Assessment Description*	*Outcome addressed*	*% of total*	*Assessment Date*
Examination	In-class test to reinforce learning	1,2,3	50.00	n/a
Other	In-class test to reinforce learning	1,2,3	50.00	n/a

No Project

No Practical

No End of Module Formal Examination

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	12 Weeks per Stage	3.00
Independent Learning	15 Weeks per Stage	5.93
	Total Hours	125.00

Workload: Part Time		
Workload Type	*Frequency*	*Average Weekly Learner Workload*
Lecture	12 Weeks per Stage	1.50
Independent Learning	15 Weeks per Stage	2.97
	Total Hours	62.50

Module Delivered In

Programme Code	Programme	Semester	Delivery
CW_BWBUS_B	Bachelor of Business (Honours) Options: in Business or Digital Marketing	2	Mandatory
CW_BWBUS_D	Bachelor of Business Options: Business or Digital Marketing	2	Mandatory
CW_BWTEM_B	Bachelor of Science (Honours) in Tourism and Event Management	2	Mandatory
CW_BWTEM_D	Bachelor of Science in Tourism and Event Management	2	Mandatory
CW_BWBUS_C	Higher Certificate in Business	2	Mandatory