CK101 BA (HONS) SUBJECT -MATHEMATICAL STUDIES

Programme Requirements

Note: Students who wish to pursue a teaching career are advised to consult the Mathematical Studies Degree coordinator to discuss the requirements of the Teaching Council of Ireland.

Code	Title C	redits
Year 1		
	5 credits as follows:	
Core Modules		
MS1002	Calculus	5
MS1003	Linear Algebra	5
MS1004	Introduction to Statistics	5
Year 2		
30-credit Subject		
	0 credits as follows - all listed core modules (15 credits of elective modules:	
Core Modules		
MS2015	Multivariable Calculus with Financial Applications	s 5
MS2005	Discrete Mathematics	5
MS2013	Geometry	5
Elective Modules		
Students take m	nodules to the value of 15 credits from the following	: 15
AM1053	Introduction to Mathematical Modelling (5)	
MS2017	Mechanics I (5)	
MS2019	Quantitative Research and Survey Sampling Methods (5)	
MS2020	Business Data Analytics (5)	
20-credit Subject		
	O credits as follows - all listed core modules (10 credits of elective modules:	
Core Modules		
MS2013	Geometry	5
MS2015	Multivariable Calculus with Financial Applications	s 5
Elective Modules		
Students take m	nodules to the value of 10 credits from the following	: 10
AM1053	Introduction to Mathematical Modelling (5)	
MS2005	Discrete Mathematics (5)	
MS2017	Mechanics I (5)	
MS2019	Quantitative Research and Survey Sampling Methods (5)	
MS2020	Business Data Analytics (5)	
Year 3		
30-credit Subject		
	O credits as follows - all listed core modules (5 credits of elective modules:	
MS3015	Ordinary Differential Equations and Dynamical Systems	5
Elective Modules		
Students take m	nodules to the value of 25 credits from the following	: 25
MA4403	Discrete Time Financial Models (5)	

MS3001	Introduction to Abstract Algebra (5)	
MS3016	Introduction to Analysis and Metric Spaces (5)	
MS3017	Vector Spaces and Linear Algebra (5)	
MS3020	Linear Predictive Modelling (5)	
MS3021	Computational Data Analytics (5)	
MS3022	Operations Research (5)	
MS3023	Stochastic Decision Science (5)	
MS3024	Geometry and Applications (5)	
20-credit Subject		
	O credits as follows - all listed core modules (5 credits of elective modules:	
Core Modules		
MS3015	Ordinary Differential Equations and Dynamical Systems	5
Elective Modules		
Students take m	odules to the value of 15 credits from the following:	15
MA4403	Discrete Time Financial Models (5)	
MS3001	Introduction to Abstract Algebra (5)	
MS3016	Introduction to Analysis and Metric Spaces (5)	
MS3017	Vector Spaces and Linear Algebra (5)	
MS3020	Linear Predictive Modelling (5)	

Geometry and Applications (5) Mathematical Studies as part of the BEd (Hons) (Sports Studies and Physical Education)

Operations Research (5)

Computational Data Analytics (5)

Stochastic Decision Science (5)

Students take 20 credits as follows - all listed core modules (10 credits) and 10 credits of elective modules:

MS3015	Ordinary Differential Equations and Dynamical Systems	5
	Systems	
MS3024	Geometry and Applications	5
Elective Module	es	
Students take modules to the value of 10 credits from the following:		
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Students take modules to the value of 10 credits from the following: 1		
inancial Models (5)		
Abstract Algebra (5)		
Analysis and Metric Spaces (5)		
and Linear Algebra (5)		
e Modelling (5)		
Data Analytics (5)		
earch (5)		
sion Science (5)		
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Examinations

MS3021

MS3022

MS3023

MS3024

Core Modules

Full details and regulations governing Examinations for each programme will be contained in the Marks and Standards Book and for each module in the Book of Modules.