B.Sc. Financial Mathematics and Economics

For 1st year students Ac.Yr 2019/2020

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B.Sc. Financial Mathematics - 1FM1				
				Exclusion-
		Sem	Pre/Co-requisites	requisites
Introduction to Financial Accounting	Core	- 1		
Computer Science	Core	ı		
Skills for Economics I	Core	ı		
Principles of Microeconomics	Core	ı		
Principles of Macroeconomics	Core	II		
Mathematics (15ECTS)	Core	I+II		
Statistics & Probability & Maths Of Finance (15ECTS)	Core	I+II		
Mathematical Methods I	Core	II		
	B.Sc. Financial Math Introduction to Financial Accounting Computer Science Skills for Economics I Principles of Microeconomics Principles of Macroeconomics Mathematics (15ECTS) Statistics & Probability & Maths Of Finance (15ECTS)	B.Sc. Financial Mathematics - Introduction to Financial Accounting Core Computer Science Core Skills for Economics I Core Principles of Microeconomics Core Principles of Macroeconomics Core Mathematics (15ECTS) Core Statistics & Probability & Maths Of Finance (15ECTS) Core	B.Sc. Financial Mathematics - 1FM1 Sem Introduction to Financial Accounting Core I Computer Science Core I Skills for Economics Core I Principles of Microeconomics Core I Principles of Macroeconomics Core II Mathematics (15ECTS) Core I+II Statistics & Probability & Maths Of Finance (15ECTS) Core I+II	B.Sc. Financial Mathematics - 1FM1 Sem Pre/Co-requisites Introduction to Financial Accounting Core I Computer Science Core I Skills for Economics I Core I Principles of Microeconomics Core I Principles of Macroeconomics Core II Mathematics (15ECTS) Core I+II Statistics & Probability & Maths Of Finance (15ECTS) Core I+II

For 2nd year students Ac.Yr 2020/2021

	B.Sc. Financial Mathematics - 2FM1				
2nd year			Sem	Pre/Co-requisites	Exclusion- requisites
CS2101	Programming for Science and Finance	Core	ı		
EC269	Intermediate Microeconomics	Core	ı		
EC247	Introduction to Financial Economics	Core	II		
EC268	Intermediate Macroeconomics	Core	II		
MA2286	Differential Forms	Core	ı		
MA284	Discrete Mathematics	Core	ı		
MA283	Linear Algebra	Core	II		
MA2287	Complex Analysis	Core	II		
ST2003	Random Variables	Core	ı		
ST2004	Statistical Inference	Core	II		
MP231	Mathematical Methods I	Core	ı		
MP232	Mathematical Methods II	Core	II		

For 3rd year students Ac.Yr 2021/2022

B.Sc. Financial Mathematics - 3FM2					
3rd year			Sem	Pre-requisites	Exclusion- requisites
AY314	Business Finance II	Core	Ш		
EC3101	Microeconomics and Public Policy	Core	ı		
EC369	Money And Banking	Core	ı		
EC3102	Macroeconomics and Public Policy	Core	II		
EC362	Economics Of Financial Markets	Core	II		
MA3343	Groups	Core	1		
MA341	Metric Spaces	Core	ı		
MA3991 † †	Actuarial mathematics Cashflow models	Core	1	2yr Cycle, not available in 21.22	
MA3992†	Actuarial mathematics Life contingencies 1, pricing and reserving	Core	ı	2yr Cycle, available in 21.22	
MA342	Topology	Core	II		
ST313	Applied Regression Models	Core	I		
MP307	Modelling II	Core	II		
MP491	Non-Linear Systems	Core	II		

For 4th year students Ac.Yr 2022/2023 *

	B.Sc. Financial Mat	hematics -	4FM2		
					Exclusion
4th year			Sem	Pre-requisites	requisites
MM4000 or EC471	Final Year Project (10ECTS)	Core	I+II		
CS4423	Networks	Core	II		
EC4100	Derivatives and Risk Management	Core	Ш		
EC420	International Monetary Economics	Core	Ш		
MA385	Numerical Analysis I	Core	ı		
MA490	Measure Theory	Core	ı		
MA3991††	Actuarial mathematics Cashflow models	Core	ı	2yr Cycle, available in 22.23	
MA3992†	Actuarial mathematics Life contingencies 1, pricing and reserving	Core	1	2yr Cycle, not available in 22.23	
MA495	Actuarial Mathematics: Life Contingencies II	Core	Ш		
MA418	Differential Equations With Financial Derivatives	Core	II		
ST413	Statistical Modelling	Core	ı		
Select one m	odule from the following electives:			•	
EC3105	Econometrics	Elective	ı		
EC423	Ireland in the Global Economy	Elective	I		
SBE3006	Entrepreneurial Finance	Elective	I		
† Offered on	a 2yr Cycle, next available in 2021.22, †† Offered on a	2yr Cycle,	next av	ailable in 2022.23.	
* Syllabus str	ucture of any future years may be subject to change a	lue to ongo	ing ann	ual syllabus review.	