

B.Sc. & B.Sc. (Hons) with Major in Quantitative Finance

Graduation Requirements for students admitted in AY2015/16

To be awarded a **B.Sc. or B.Sc.(Hons) with primary major in Quantitative Finance**, in addition to the University and Faculty requirements, a candidate must satisfy the following:

Module Level	Major Requirements	Level MCs	Cumulative Major MCs
1000	 Pass all the following modules: CS1010/CS1010E/CS1010S/CS1010X/CS1101S* Programming Methodology CS1020/CS1020E Data Structures and Algorithms I ACC1002 Financial Accounting MA1101R Linear Algebra I MA1102R Calculus MA1104 Multivariable Calculus *CS10105 (5MCs) may be read as an alternative to CS1010% (4MCs) to facilitate relevant programmes, e.g. Double Degree Programme with School of Computing. Registration for this module is subject to host availability. 	24	24
2000	 2. Pass all the following modules: FIN2004 Finance MA2101/MA2101S Linear Algebra II MA2108/MA2108S Mathematical Analysis I MA2213 Numerical Analysis I MA2216/ST2131 Probability 	20-22	44-46
3000	 3. Pass all the following modules: QF3101 Investment Instruments: Theory and Computation MA3269 Mathematical Finance I ST3131 Regression Analysis Pass two modules from the following: CS3230 Designs and Analysis of Algorithms MA3220 Ordinary Differential Equations MA3236 Nonlinear Programming MA3252 Linear and Network Optimisation MA3264 Mathematical Modelling 	28	72-74



Module Level	Major Requirements	Level MCs	Cumulative Major MCs
	5. Pass two modules from the following:		
	FIN3101 Corporate Finance FIN3101 Corporate Finance		
	FIN3103 FINALICIAL Warkets FIN3117 Dank Management		
	FINSI17 Ballk Mallagement EIN2118 Einancial Bick Management		
4000	6. Pass all the following modules:	32	104-106
	QF4199 Honours Project in Quantitative Finance		
	QF4102 Financial Modelling		
	 MA4269 Mathematical Finance II 		
	7. Pass three modules from the following:		
	 QF5210 Financial Time Series: Theory and 		
	Computation		
	 FIN4111 Research Methods in Finance 		
	FIN4112 Seminar in Finance		
	 MA4254 Discrete Optimisation 		
	 MA4255 Numerical Partial Differential Equations 		
	 MA4260 Stochastic Operations Research 		
	MA4264 Game Theory		
	ST4233 Linear Models		
	 ST4245 Statistical Methods for Finance 		
	 MA5245 Advanced Financial Mathematics 		
	MA5248 Stochastic Analysis in Mathematical Finance		

Modular Credit Cumulative Table						
Requirements	B.Sc.	B.Sc. (Hons)				
University Requirements	20 MC	20 MC				
Faculty Requirements	12 MC*	12 MC*				
Major Requirements	72-74 MC	104-106 MC				
Unrestricted Free Electives	16-14 MC	24-22 MC				
Total	120 MC	160 MC				

*Up to 4 MCs of Faculty requirements of the total of 16 MCs required for the B.Sc. (Hons.) programme are fulfilled through the reading of MA/CS modules within the major.

Students of the B.Sc. and B.Sc. (Hons.) programmes are required to fulfil the remaining 12 MCs of Faculty requirements from any three (3) of the following subject groups: Chemical Sciences,



Life Sciences, Physical Sciences and Multidisciplinary & Interdisciplinary Sciences, but not from the following subject groups: Computing Sciences and Mathematical & Statistical Sciences.

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