

B.Sc. & B.Sc. (Hons) with Major in Applied Mathematics with Specialization in Operations Research and Financial Mathematics (ORFM)

Sample Study Plan for Students Admitted in AY2016/17

Occasionally certain modules listed below may not be offered in a particular year.

LEVEL	RECOMMENDED MODULES
1000	 MA1100 Fundamental Concepts of Mathematics MA1101R Linear Algebra I MA1102R Calculus MA1104/MA2104 Multivariable Calculus CS1010/CS1010E/CS1010S/CS1010FC/CS1010X Programming Methodology
2000	 MA2101/MA2101S Linear Algebra II MA2108/MA2108S Mathematical Analysis I MA2213 Numerical Analysis I MA2216/ST2131 Probability One of the following modules: MA2214 Combinatorics and Graphs I ST2132 Mathematical Statistics ST3131 Regression Analysis²
3000	 MA3110/MA3110S Mathematical Analysis II MA3111/MA3111S Complex Analysis I MA3236 Nonlinear Programming MA3252 Linear and Network Optimization MA3269 Mathematical Finance I Optional unrestrictive elective module: QF3101 Investment Instruments: Theory and Computation Note: One may need to take additional Level 3000 modules as unrestrictive elective modules to serve as prerequisites for certain Level 4000 modules



LEVEL	RECOMMENDED MODULES
4000	 MA4199 Honours Project in Mathematics MA4254 Discrete Optimization MA4260 Stochastic Operations Research MA4264 Game Theory MA4269 Mathematical Finance II One of the following modules: MA4230 Matrix Computation MA4255 Numerical Methods in Differential Equations¹ ST4245 Statistical Methods for Finance²

¹ MA4255 requires MA3220 as prerequisite ² ST4245 requires ST3131 as prerequisite

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