

B.Sc. & B.Sc. (Hons) with Major in Applied Mathematics (without specialization, but with interest in Operations Research)

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 MA2214 Combinatorics and Graphs I
3000	 MA3110/MA3110S Mathematical Analysis II MA3111/MA3111S Complex Analysis I MA3236 Nonlinear Programming MA3252 Linear and Network Optimization One of the following modules: MA3220 Ordinary Differential Equations² MA3227 Numerical Analysis II MA3233 Combinatorics and Graphs II¹ MA3264 Mathematical Modelling Note: One more produced to take additional Lavel 2000 modules as uprestrictive elective
	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
	MA4230 Matrix Computation
	MA4254 Discrete Optimization
	MA4260 Stochastic Operations Research
	MA4264 Game Theory
	One of the following modules:
	 MA4235 Topics in Graph Theory¹
	 MA4255 Numerical Methods in Differential Equations²
	 MA4268 Mathematics for Visual Data Processing
	 MA4270 Data Modelling and Computation

¹ MA4235 requires MA3233 as prerequisite

² MA4255 requires MA3220 as prerequisite

Updated 30 June 2017