

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 AY2019/2020 or after

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

LEVEL	RECOMMENDED MODULES
1000	 MA1100 Basic Discrete Mathematics MA1101R Linear Algebra I MA1102R Calculus CS1010/CS1010E/CS1010S/CS1010X/CS1101S Programming Methodology
2000	 MA2101/MA2101S Linear Algebra II MA2104 Multivariable Calculus MA2108/MA2108S Mathematical Analysis I MA2213 Numerical Analysis I MA2216/ST2131 Probability MA2214 Combinatorics and Graphs I
3000	 MA3233 Combinatorics and Graphs II MA3236 Nonlinear Programming MA3252 Linear and Network Optimization Two* of the following modules: MA3210 Mathematical Analysis II MA3220 Ordinary Differential Equations ¹ MA3227 Numerical Analysis II MA3238 Stochastic Processes I MA3264 Mathematical Modelling
	*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 Theory MA4255 Numerical Methods in Differential Equations ¹ MA4268 Mathematics for Visual Data Processing MA4270 Data Modelling and Computation Notes: MA4255 requires MA3220 as prerequisite

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