

B.Sc. & B.Sc. (Hons) with Major in Mathematics

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	<ul style="list-style-type: none"> • MA1100 Fundamental Concepts of Mathematics • MA1101R Linear Algebra I • MA1102R Calculus • MA1104/MA2104 Multivariable Calculus • CS1010/CS1010E/CS1010S/CS1010X Programming Methodology
2000	<ul style="list-style-type: none"> • MA2101/MA2101S Linear Algebra II • MA2108/MA2108S Mathematical Analysis I • MA2202/MA2202S Algebra I • MA2216/ST2131 Probability • One of the following modules: <ul style="list-style-type: none"> – MA2214 Combinatorics and Graphs I – MA2219 Introduction to Geometry
3000	<ul style="list-style-type: none"> • MA3110/MA3110S Mathematical Analysis II • MA3111/MA3111S Complex Analysis I • MA3201 Algebra II • MA3209 Mathematical Analysis III • One of the following modules: <ul style="list-style-type: none"> – MA3205 Set Theory – MA3220 Ordinary Differential Equations¹ – MA3265 Introduction to Number Theory – MA3266 Introduction to Fourier Analysis <p><i>Note:</i> One may need to take additional Level 3000 modules as unrestrictive elective modules to serve as prerequisites for certain Level 4000 modules</p>

LEVEL	RECOMMENDED MODULES
4000	<ul style="list-style-type: none">• MA4199 Honours Project in Mathematics• MA4203 Galois Theory• MA4211 Functional Analysis• MA4262 Measure and Integration• MA4266 Topology• One of the following modules:<ul style="list-style-type: none">– MA4207 Mathematical Logic– MA4221 Partial Differential Equations¹– MA4247 Complex Analysis II– MA4271 Differential Geometry of Curves and Surfaces

¹ MA4221 requires MA3220 as prerequisite

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