

B.Sc. (Hons) with Major in Mathematics with Specialisation in Pure Mathematics

Graduation Requirements for students admitted in AY2021/2022 or after

To be awarded a **B.Sc.(Hons) with primary major in Mathematics with Specialisation in Pure Mathematics (PM)**, in addition to the University, College and primary major in Mathematics requirements, a candidate must satisfy the following:

Course Level	Major Requirements	Level Units	Cumulative Major Units
1000	1. Pass MA1100/MA1100T Basic Discrete Mathematics	4	4
2000	2. Pass all the following courses: <ul style="list-style-type: none"> MA2001 Linear Algebra I MA2002 Calculus MA2101/MA2101S Linear Algebra II MA2104 Multivariable Calculus MA2108/MA2108S Mathematical Analysis I MA2116/MA2216/ST2131 Probability 3. Pass two additional courses coded MA22xx/MA32xx/MA42xx (except MAx288/MAx289/MAx288x/MAx289x)	32-36	36-40
3000	4. Pass *five courses coded MA32xx/MA42xx/MA52xx/MA62xx (except MAx288/MAx289/ MAx288x/ MAx289x) or ST3236 or ST4238 *At most three courses (12 Units) can be coded MA52xx/MA62xx	20-23	56-62
4000	5. Pass MA4198 Mathematics Capstone Project 6. Pass five* additional courses from List PM <i>The five courses used to satisfy item 6 cannot be concurrently used to satisfy item 3 or 4.</i>	24	80-86
List PM			
<ul style="list-style-type: none"> MA4203 Galois Theory MA4207 Mathematical Logic MA4211 Functional Analysis MA4221 Partial Differential Equations MA4233 Dynamical Systems MA4235 Graph Theory MA4262 Measure and Integration MA4266 Topology MA4271 Differential Geometry in Curves and Surfaces MA4273 Algebraic Geometry in Curves and Surfaces MA4288P Undergraduate Project in Mathematics 			