

TABLE 2: COURSE DISTRIBUTION PER SEMESTER – BSc (Hons) Mathematics and Statistics

A/A	Course Type	Course Name	Course Code	Periods per week	Period duration	Number of weeks/ Academic semester	Total periods/ Academic semester	Number of ECTS
Year 1 A' Semester								
1.	Compulsory	Discrete Mathematics	MA1611	3	1 hour	13	39	5*
2.	Compulsory	Functions, Vectors and Calculus	MA1831	6	1 hour	13	78	10
3.	Optional	History of Mathematics	MA1613	4	1 hour	13	52	10
4.	Optional	Study & Research Skills	CO1808	3	1 hour	13	39	5*
5.	Optional	University Elective	-	-	-	-	-	10
Year 1 B' Semester								
6.	Compulsory	Discrete Mathematics	MA1611	3	1 hour	13	39	5*
7.	Compulsory	From Geometry into Algebra	MA1612	6	1 hour	13	78	10
8.	Compulsory	Introduction to Probability and Statistics	MA1XXX	6	1 hour	13	78	10
9.	Optional	Academic Writing	EF1498	4	1 hour	13	52	10
10.	Optional	Study & Research Skills	CO1808	3	1 hour	13	39	5*

11.	Optional	University Elective	-	-	-	-	-	10
Year 2 A' Semester								
12.	Compulsory	Analysis I – Real Numbers, Sequences, Series and Continuity	MA1XXX	6	1 hour	13	78	10
13.	Compulsory	Theory of Probability	MA1XXX	6	1 hour	13	78	10
14.	Optional	Mechanics	AP1842	3	1 hour	13	39	5*
15.	Optional	Introduction to Applied Mathematics	MA1841	6	1 hour	13	78	10
Year 2 B' Semester								
16.	Compulsory	Introduction to Algebra and Linear Algebra	MA1811	6	1 hour	13	78	10
17.	Compulsory	Computational Mathematics	MA1851	6	1 hour	13	78	10
18.	Compulsory	Theory of Statistics	MA1XXX	6	1 hour	13	78	10
19.	Optional	Mechanics	AP1842	3	1 hour	13	39	5*
Year 3 A' Semester								
20.	Compulsory	Ordinary Differential Equations	MA2831	4	1 hour	13	52	10
21.	Compulsory	Numerical Methods	MA2853	4	1 hour	13	52	10

22.	Compulsory	Stochastic Processes	MA3871	6	1 hour	13	78	10
23.	Optional	University Elective	-	-	-	-	-	10
Year 3 B' Semester								
24.	Optional	Cryptology	MA2812	4	1 hour	13	52	10
25.	Compulsory	Analysis II – Differentiation and Riemann Integration	MA2XXX	6	1 hour	13	78	10
26.	Optional	Vector Calculus	MA2832	4	1 hour	13	52	10
27.	Compulsory	Linear and Generalised Linear Models	MA2XXX	6	1 hour	13	78	10
28.	Optional	Mathematics / Statistics Placement**	MA2XXX	3	1 hour	2	6	10
29.	Optional	University Elective	-	-	-	-	-	10
Year 3 C' Semester								
30.	Optional	Mathematics / Statistics Placement**	MA2XXX	3	1 hour	2	6	10
Year 4 A' Semester								
31.	Compulsory	Complex Analysis	MA3821	6	1 hour	13	78	10
32.	Compulsory	Advanced Computational Statistics and Data Analysis	MA3XXX	6	1 hour	13	78	10

33.	Compulsory	Time Series	MA3873	6	1 hour	13	78	10
34.	Optional	Mathematics Project	MA3999	1	1 hour	8	8	5*
35.	Optional	University Elective	-	-	-	-	-	10

Year 4 B' Semester

36.	Optional	Partial Differential Equations and Integral Transforms	MA3831	4	1 hour	13	52	10
37.	Compulsory	Analysis III – Metric and Topological Spaces	MA3XXX	6	1 hour	13	78	10
38.	Optional	Advanced Topics in Mathematics / Statistics	MA3XXX	4	1 hour	13	52	10
39.	Optional	Actuarial Mathematics and Statistics	MA3877	3	1 hour	13	39	5
40.	Optional	Introduction to Econometrics	MA3XXX	3	1 hour	13	39	5
41.	Optional	Mathematics Project	MA3999	1	1 hour	8	8	5*
42.	Optional	University Elective	-	-	-	-	-	10

*The ECTS indicates the equivalent student workload per semester.

NOTE: For example, the students will receive the 10 ECTS of the module further to successful completion of the 2 semesters (5* + 5*).

**The students will have the choice to select the module in either Semester 2 or Semester 3.