

TABLE 2: COURSE DISTRIBUTION PER SEMESTER

A/A	Course Type	Course Name	Course Code	Periods per week	Period duration	Number of weeks/ Academic semester	Total hours / Academic semester	Number of ECTS
A' Semester								
1.	C	Linear Algebra I	MAS121	2(L), 1(T)	L=2, T=1	13	52(L), 13(T)	8
2.	C	Basic Mathematics I	MAS131	2(L)	L=2	13	52(L)	7
3.	C	Sets and Algebraic Structures	MAS133	2(L)	L=2	13	52(L)	7
4.	C	Introduction to Programming	EPLO31	2(L), 1(T), 1(CL)	L=1.5, T=1, CL=1	13	39(L), 13(T), 13(CL)	7
B' Semester								
1.	C	Calculus I	MAS101	2(L), 1(T)	L=2, T=1	14	56(L), 14(T)	8
2.	C	Linear Algebra II	MAS122	2(L), 1(T)	L=2, T=1	14	56(L), 14(T)	8
3.	C	Basic Mathematics II	MAS132	2(L)	L=2	14	56(L)	7
4.	C	Mathematics with computers	MAS191	2(L), 1(CL)	L=2, CL=2	14	56(L), 28(T)	8
C' Semester								
1.	C	Calculus II	MAS102	2(L), 1(T)	L=2, T=1	13	52(L), 13(T)	8

2.	C	Multivariable Differential calculus	MAS201	2(L)	L=2	13	52(L)	7
3.	C	Probability I	MAS261	2(L)	L=2	13	52(L)	7
4.	C	Numerical Analysis I	MAS271	2(L)	L=2	13	52(L)	7
D' Semester								
1.	C	Multivariable Integral calculus	MAS202	2(L)	L=2	14	56(L)	7
2.	C	Ordinary Differential Equations	MAS203	2(L)	L=2	14	56(L)	7
3.	C	Statistics I	MAS262	2(L)	L=2	14	56(L)	7
4.	E	Number Theory	MAS222	2(L)	L=2	14	56(L)	7
5.	C	Foreign Language I		2(L)	L=1.5	14	42(L)	5
E' Semester								
1.	C	Real Analysis	MAS301	2(L), 1(T)	L=2, T=1	13	52(L), 13(T)	8
2.	C(Pure) E(Stat) E(Appl)	Introduction to Algebra	MAS321	2(L)	L=2	13	52(L)	7
3.	C	Classical Differential Geometry	MAS331	2(L)	L=2	13	52(L)	7
4.	C(Stat) E(Pure) E(Appl)	Stochastic Processes	MAS350	2(L)	L=2	13	52(L)	7
5.	E	Partial Differential Equations	MAS303	2(L)	L=2	13	52(L)	7

6.	E	Functional Analysis	MAS304	2(L)	L=2	13	52(L)	7
7.	E	Measure Theory and Integration	MAS401	2(L)	L=2	13	52(L)	7
8.	E	An Introduction to Fourier Analysis	MAS418	2(L)	L=2	13	52(L)	7
9.	E	Numerical Analysis II	MAS371	2(L)	L=2	13	52(L)	7
10.	C(Stat) E(Pure) E(Appl)	Probability II	MAS361	2(L), 1(T)	L=2, T=1	13	52(L), 13(T)	7
F' Semester								
1.	C	Complex variables I	MAS302	2(L)	L=2	14	56(L)	7
2.	C(Stat) E(Pure) E(Appl)	Statistics II	MAS362	2(L), 1(T)	L=2, T=1	14	56(L), 14(T)	7
3.	C(Stat) E(Pure) E(Appl)	Statistical Data Analysis	MAS458	2(L+CL)	L+CL=2	14	56(L+CL)	7
4.	E	Galois Theory	MAS426	2(L)	L=2	14	56(L)	7
5.	E	Introduction to Differentiable Manifolds	MAS431	2(L)	L=2	14	56(L)	7
6.	E	Introduction to Riemannian Geometry	MAS432	2(L)	L=2	14	56(L)	7
7.	E	Topology	MAS433	2(L)	L=2	14	56(L)	7

8.	E	Ordinary Differential Equations II	MAS403	2(L)	L=2	14	56(L)	7
9.	E	Approximation Theory	MAS420	2(L)	L=2	14	56(L)	7
10.	E	Numerical Solution of Ordinary Differential Equations	MAS471	2(L)	L=2	14	56(L)	7
11.	E	Numerical Solution of Partial Differential Equations	MAS472	2(L)	L=2	14	56(L)	7
12.	E	Introduction to the Finite Element Method	MAS473	2(L)	L=2	14	56(L)	7
13.	E	Applied Mathematical Analysis	MAS481	2(L)	L=2	14	56(L)	7
14.	E	Classical Mechanics	MAS482	2(L)	L=2	14	56(L)	7
15.	E	Fluid Dynamics	MAS483	2(L)	L=2	14	56(L)	7
16.	C	Foreign Language II		2(L)	L=1.5	14	42(L)	5
17.	C(Pure) C(Appl) E(Stat)	Physics for Mathematicians	PHY103	2(L)	L=1.5	14	42(L)	6
18	E/SS	Research Study	MAS512	WM	WM	14	WM	7
G' Semester								
1.	E	Theory of Rings and Modules	MAS424	2(L)	L=2	13	52(L)	7
2.	E	Group Theory	MAS425	2(L)	L=2	13	52(L)	7
3.	E	Introduction to Algebraic Topology	MAS434	2(L)	L=2	13	52(L)	7

4.	C(Stat) E(Pure) E(Appl)	Linear Models I	MAS451	2(L), 1(T)	L=2, T=1	13	52(L), 13(T)	8
5.	C(Stat) E(Pure) E(Appl)	Non-Parametric Statistics	MAS454	2(L)	L=2	13	52(L)	7
6.	E	Sampling Theory	MAS455	2(L)	L=2	13	52(L)	7
7.	E	Time Series	MAS456	2(L)	L=2	13	52(L)	7
8.	E	Topics in Probability – Statistics I	MAS468	2(L)	L=2	13	52(L)	7
9.	E	Introduction to Mathematical Modeling	MAS484	2(L)	L=2	13	52(L)	7
10.	E	Diploma Project I	MAS510	WM	WM	13	WM	7
H' Semester								
1.	E	Complex Analysis II	MAS402	2(L)	L=2	14	56(L)	7
2.	E	Topics in Analysis	MAS419	2(L)	L=2	14	56(L)	7
3.	E	Introduction to Coding Theory	MAS422	2(L)	L=2	14	56(L)	7
4.	E	Group Representation Theory	MAS427	2(L)	L=2	14	56(L)	7
5.	E	Topics in Algebra	MAS429	2(L)	L=2	14	56(L)	7
6.	E	Introduction to Algebraic Geometry	MAS439	2(L)	L=2	14	56(L)	7
7.	E	Linear Models II	MAS452	2(L)	L=2	14	56(L)	7
8.	E	Multivariable Analysis	MAS459	2(L)	L=2	14	56(L)	7

9.	E	Survival Analysis	MAS466	2(L)	L=2	14	56(L)	7
10.	E	Topics in Probability – Statistics II	MAS469	2(L)	L=2	14	56(L)	7
11.	E	Special Topics in Applied Mathematics	MAS487	2(L)	L=2	14	56(L)	7
12.	E	Independent Study	MAS499	WM	WM	14	WM	7
13.	E	Diploma Project II	MAS511	WM	WM	14	WM	7

Explanations:

C: Compulsory course for all students

C(Pure): Compulsory course for students with specialization in Pure Mathematics

C(Appl): Compulsory course for students with specialization in Applied Mathematics

C(Stat): Compulsory course for students with specialization in Statistics

E(Pure): Elective course for students with specialization in Pure Mathematics

E(Appl): Elective course for students with specialization in Applied Mathematics

E(Stat): Elective course for students with specialization in Statistics

E: Elective

L: Lecture

T: Tutorial

CL: Computer lab

WM: Weekly Meetings

SS: Summer Semester