

School of Mathematics							
Module Code	Module Title	ECTS	Semester	% Exam	% CA	Pre-requisite	Notes
<a href="#">MAU11101</a>	Linear Algebra I	10	Full Year	80	20		
<a href="#">MAU22101</a>	Abstract Algebra I: Group Theory	5	Semester 1	80	20		
<a href="#">MAU22E01</a>	Engineering Mathematics Iii	5	Semester 1	90	10	<a href="#">MAU11E02</a>	
<a href="#">MAU22S01</a>	Multivariable Calculus For Science	5	Semester 1	80	20	<a href="#">MAU11S02 Mathematics for scientists II</a>	
<a href="#">MAU22S03</a>	Fourier Analysis For Science	5	Semester 1	80	20	<a href="#">MAU11S02 Mathematics for scientists II</a>	
<a href="#">MAU23101</a>	Introduction To Number Theory	5	Semester 1	85	15		
<a href="#">MAU23203</a>	Analysis In Several Real Variables	5	Semester 1	90	10	<a href="#">MAU11100 Linear algebra, MAU11202 Advanced calculus and MAU11204 Analysis on the real line</a>	
<a href="#">MAU23205</a>	Ordinary Differential Equations	5	Semester 1	80	20	<a href="#">MAU11100 Linear algebra and MAU11204 Analysis on the real line</a>	
<a href="#">MAU23401</a>	Advanced Classical Mechanics I	5	Semester 1	80	20	<a href="#">MAU11400 Mechanics</a>	
<a href="#">MAU23403</a>	Equations Of Mathematical Physics I	5	Semester 1	90	10		
<a href="#">MAU33E01</a>	Engineering Mathematics V	5	Semester 1	80	20	<a href="#">MAU22E02 Engineering mathematics IV</a>	
<a href="#">MAU34301</a>	Differential Geometry	5	Semester 1	100		<a href="#">MAU23206 Calculus on manifolds</a>	
<a href="#">MAU34401</a>	Classical Field Theory	5	Semester 1	80	20	<a href="#">MAU23402 Advanced classical mechanics II</a>	
<a href="#">MAU34403</a>	Quantum Mechanics I	5	Semester 1	90	10	<a href="#">MAU23402 Advanced classical mechanics II</a>	
<a href="#">MAU34405</a>	Statistical Physics I	5	Semester 1	80	20	<a href="#">AU23402 Advanced classical mechanics II</a>	
<a href="#">MAU34601</a>	Practical Numerical Simulations	5	Semester 1	60	40	<a href="#">MAU11400 Mechanics and one of MAU11404 Techniques in theoretical physics OR MAU23205 Ordinary differential equations</a>	
<a href="#">MAU22102</a>	Abstract Algebra Ii: Fields, Rings, Modules	5	Semester 2	85	15	<a href="#">MAU22101 Group theory</a>	
<a href="#">MAU22E02</a>	Engineering Mathematics Iv	5	Semester 2	90	10	<a href="#">MAU22E01 Engineering mathematics III</a>	
<a href="#">MAU22S02</a>	Vector Calculus For Science	5	Semester 2	80	20	<a href="#">MAU22S01 Multivariable calculus for science</a>	
<a href="#">MAU23204</a>	Introduction To Complex Analysis	5	Semester 2	100	0	<a href="#">MAU11204 Analysis on the real line OR MAU23203 Analysis in several real variables</a>	
<a href="#">MAU23206</a>	Calculus On Manifolds	5	Semester 2	90	10	<a href="#">MAU23203 Analysis in several real variables</a>	
<a href="#">MAU23302</a>	Euclidean And Non-Euclidean Geometry	5	Semester 2	100	0		
<a href="#">MAU23402</a>	Advanced Classical Mechanics Ii	5	Semester 2	80	20	<a href="#">MAU23401 Advanced classical mechanics I</a>	
<a href="#">MAU34402</a>	Classical Electrodynamics	5	Semester 2	80	20	<a href="#">MAU34401 Classical field theory</a>	
<a href="#">MAU34404</a>	Quantum Mechanics Ii	5	Semester 2	80	20	<a href="#">MAU34403 Quantum mechanics I</a>	
<a href="#">MAU34406</a>	Statistical Physics Ii	5	Semester 2	80	20	<a href="#">MAU34405 Statistical physics I</a>	

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<a href="#">MAU34109</a>	Algebraic Number Theory	5	Semester 1	80	20	<a href="#">MAU22102 Fields, rings and modules and</a> <a href="#">MAU23101 Introduction to number theory</a>	
<a href="#">MAU34201</a>	Algebraic Topology I	5	Semester 1	100		<a href="#">MAU22101 Group theory and one of MAU22200</a> <a href="#">Advanced analysis OR MAU23203 Analysis in several</a> <a href="#">real variables</a>	
<a href="#">MAU34203</a>	Functional Analysis	5	Semester 1	80	20	<a href="#">MAU22200 Advanced analysis</a>	
<a href="#">MAU34104</a>	Group Representations	5	Semester 2	80	20	<a href="#">MAU11100 Linear algebra and MAU22101 Group</a> <a href="#">theory</a>	
<a href="#">MAU34202</a>	Algebraic Topology II	5	Semester 2	85	15	<a href="#">MAU22200 Advanced analysis (required) MAU34201</a> <a href="#">Algebraic topology I (recommended)</a>	
<a href="#">MAU34206</a>	Harmonic Analysis	5	Semester 2	100	0	<a href="#">MAU22200 Advanced analysis</a>	
<a href="#">MAU34210</a>	Linear Partial Differential Equations	5	Semester 2	90	10	<a href="#">MAU11404 Techniques in theoretical physics OR</a> <a href="#">MAU23205 Ordinary differential equations</a>	
<a href="#">MAU34302</a>	Introduction To Algebraic Geometry	5	Semester 2	80	20	<a href="#">MAU22102 Fields, rings and modules and</a> <a href="#">MAU23206 Calculus on manifolds</a>	
<a href="#">MAU34802</a>	The Theory Of Linear Programming	5	Semester 2	80	20	<a href="#">MAU11100 Linear algebra</a>	

**For more information on module descriptors please click the module code**

**Please note that Modules relate to the 2022/23 Academic Year and are subject to change**