

Module Code	Module Title	ECTS Credit	Semester/Duration	% Exam	% CA	Pre-requisite
MAU22102	Abstract Algebra II: Fields, Rings, Modules	5	Semester 2	85	15	MAU22101 Group theory
MAU22E02	Engineering Mathematics IV	5	Semester 2	90	10	MAU22E01 Engineering mathematics III
MAU22S02	Vector Calculus For Science	5	Semester 2	80	20	MAU22S01 Multivariable calculus for science
MAU34402	Classical Electrodynamics	5	Semester 2	80	20	MAU34401 Classical field theory
MAU34404	Quantum Mechanics II	5	Semester 2	80	20	MAU34403 Quantum mechanics I
MAU34406	Statistical Physics II	5	Semester 2	80	20	MAU34405 Statistical physics I
MAU44404	General Relativity	5	Semester 2	85	15	MAU34301 Differential geometry and MAU34402 Classical electrodnamics
MAU44406	The standard model of elementary particle physics	5	Semester 2	100	0	MAU34402 Classical electrodynamics and MAU34404 Quantum mechanics II
MAU11202	Advanced calculus	5	Semester 2	80	20	MAU11201 Single-variable calculus
MAU11204	Analysis on the real line	5	Semester 2	90	10	MAU11201 Single-variable calculus
MAU11404	Techniques in theoretical physics	5	Semester 2	70	30	MAU11201 Single-variable calculus
MAU11602	Computation theory and logic	5	Semester 2	70	30	MAU11201 Single-variable calculus
MAU11E02	Engineering mathematics II	5	Semester 2	80	20	MAU11E01 Engineering mathematics I
MAU11S02	Mathematics for scientists II	10	Semester 2	80	20	MAU11S01 Mathematics for scientists I
MAU22204	Introduction to complex analysis	5	Semester 2	100	0	MAU11204 Analysis on the real line OR MAU23203 Analysis in several real variables
MAU22206	Calculus on manifolds	5	Semester 2	80	20	MAU23203 Analysis in several real variables
MAU22302	Euclidean and non-Euclidean geometry	5	Semester 2	90	10	MAU11100 Linear Algebra & MAU11201 Single - variable calculus

Please note that Modules relate to the 2024/25 Academic Year and are subject to change