

## B. COURSES OFFERED IN 2025-2026

CS = Computer Science

B or C = undergraduate courses

Bespoke Maths = pure MFoCS courses

### Schedule I

Algebraic Topology - C	Prof Andras Juhasz	MT
Algebraic Number Theory – B	Prof Victor Flynn	HT
Analytic Number Theory - C	Prof Ben Green	MT
Analytic Topology - C	Prof Rolf Suabedissen	HT
Categories, Proofs, and Processes – (CS)	Prof Bartek Klin	MT
Category Theory - C	Prof André Henriques	MT
Computer-Aided Formal Verification (CS)	Prof David Parker	MT
Computational Complexity (CS)	Prof Rahul Santhanum	HT
Godel's Incompleteness Theorems - C	Dr Robin Knight	HT
Graph Theory - B	Prof. Oliver Riordan	MT
Information Theory - B	Prof Ben Hambly	MT
Integer Programming - B	Dr Jari Fowkes	MT
Introduction to Quantum Information - C	Prof Artur Ekert	HT
Lambda Calculus and Types (CS)	Dr Max Doré	HT
Model Theory - C	Dr Jamshid Derakhshan	MT
Quantum Processes and Computation (CS)	Prof Aleks Kissinger	HT
Topology and Groups - B	Prof André Henriques	MT

### Schedule II

Additive Number Theory – C	Prof James Maynard	HT
*Applied Category Theory (bespoke Maths)	Dr Paolo Perrone	TT
Algebraic Geometry - C	Prof Damien Rossler	MT
Automata, Logic and Games (CS)	Prof Michael Benedikt	HT
Axiomatic Set Theory - C	Dr Robin Knight	MT
*Classical and quantum compositional distributional meaning (bespoke maths)	Prof Bob Coecke	HT
Combinatorics - C	Prof Alex Scott	MT
Computational Algebraic Topology - C	Prof Vidit Nanda	HT
Distributed processes, types, and programming (CS)	Prof Nobuko Yoshida	MT
Elliptic Curves - C	Dr James Newton	MT
Foundations of Self-Programming Agents (CS)	Prof Giuseppe de Giacomo	HT
Geometric Deep Learning (CS)	Prof Michael Bronstein	HT
Geometric Group Theory - C	Prof Panos Papazoglou	HT

Homological Algebra - C	Dr Kobi Kremnitzer	MT
Infinite Groups - C	Prof Panos Papazoglou	MT
Introduction to Schemes - C	Prof Kevin McGerty	HT
Low-dimensional Topology and Knot Theory - C	Prof Andras Juhasz	HT
Networks - C	Prof Renaud Lambiotte	HT
Probabilistic Combinatorics - C	Prof Paul Balister	HT

\*These courses are offered as directed reading courses, with syllabuses provided as in the case of lecture courses. There may be one or two more reading courses to be added later.

WE REGRET THAT DUE TO TIMETABLING RESTRICTIONS THERE WILL BE A NUMBER OF CLASHES BETWEEN LECTURE COURSES. PLEASE CHECK THE LECTURE TIMETABLE CAREFULLY.