

Mathematical Tripos

Part III Lecture Courses in 2022-2023

Department of Pure Mathematics
& Mathematical Statistics

Department of Applied Mathematics
& Theoretical Physics

Notes and Disclaimers

- The course descriptions provided on this page apply only for the academic year 2022-23. Details for subsequent years are often broadly similar, but *not* necessarily identical as many courses evolve from year to year.
- There is *no* requirement that students restrict their choice of courses to those given by one Department. Most students take courses from a small number of subject areas, but some take a wide variety. Courses may be selected freely from those available, within the constraints of the lecture timetable, which is arranged carefully to avoid, as far as possible, clashes between related courses.
- It will *not* be possible for a candidate to take two courses for examination which share a time slot in the lecture timetable for any given term. Students should note that this remains the case even where courses are not delivered live in their scheduled time slot.
- In each course description, the code in parentheses after each course name indicates the term of the course (M: Michaelmas; L: Lent; E: Easter), and the number of lectures in the course. Unless indicated otherwise, a 16 lecture course is equivalent to 2 **credit units**, while a 24 lecture course is equivalent to 3 **credit units**. Please note that certain courses are *non-examinable*, and are indicated as such after the title. Some of these courses may be the basis for Part III essays.
- Please note that some subject areas provide a description of desirable prior knowledge for courses in that subject area. On the one hand, the prerequisites listed are not exhaustive, whilst on the other, not all courses require all the prerequisite material indicated. You are strongly advised to read up on any topics with which you are unfamiliar if you intend to take a significant number of courses from a particular area.
- Please note that while an attempt has been made to ensure that the outlines provided on this page are an accurate indication of the content of each lecture course, a course outline does *not* constitute a definitive syllabus. The lectures and associated course materials as offered in this academic year define the syllabus. Each course lecturer has discretion to vary the material covered.
- Some courses have no outline available at this time, in which case you will see “No description available”. Course outlines will be added to the Guide to Courses as soon as they are provided by the lecturer. Until then, the descriptions for the previous year (available [here](#)) may be helpful in giving a rough idea of course content, but beware of the comments in the preceding item on what defines the syllabus.