

Guide to Elliptic Curves lectures

There are sixteen lecture videos, almost all divided into two parts A and B, along with an introductory video. The lectures are paced as for an 8 week course. Below gives a summary of what each lecture covers in the course lecture notes: here “up to Lemma 6.6” means including the proof of Lemma 6.6 etc. By looking at this summary alongside the problem sheets you can see what lectures are needed to attempt each problem sheet.

- Lecture 1: Section 1 up to the statement of Lemma 1.11.
- Lecture 2: Remainder of Section 1. Section 2 up to Comment 2.5.
- Lecture 3: Section 2 up to Comment 2.13.
- Lecture 4: Remainder of Section 2.
- Lecture 5: Section 3 up to the exact sequence after Definition 3.9.
- Lecture 6: Remainder of Section 3.
- Lecture 7: Section 4 up to Example 4.10.
- Lecture 8: Section 4 up to Comment 4.16.
- Lecture 9: Remainder of Section 4.
- Lecture 10: Section 5.
- Lecture 11: Section 6 up to just before Lemma 6.3.
- Lecture 12: Section 6 up to Lemma 6.6.
- Lecture 13: Section 6 up to Example 6.12.
- Lecture 14: Remainder of Section 6 and Section 7.
- Lecture 15: Section 8.
- Lecture 16: Discussion of 2015 exam paper Question 3.