DM19 – Algorithms and Complexity
E05 – Lecture 10

Lectures, November 10 and 11

The second half of the discussion section times was used for lecture, with the same material covered both days. We showed that CLIQUE, INDEPENDENT SET, and VERTEX COVER are NP-complete.

Lecture, November 16

We will finish NP-completeness and begin on approximation algorithms from chapter 35 in the textbook.

Lecture, November 23

We will continue with approximation algorithms from chapter 35 in the textbook.

Problems to be discussed in week 47

1. 34-1a, 34-1b, 34-1c.

2. 34-4a, 34-4b, 34-4c.

3. 35.2-2, 35.2-3, 35.2-5. (Is the triangle inequality necessary? As a hint, notice the similarity to Prim's algorithm for MST.)