

# DM553 – Complexity and Computability – 2016

## Lecture 6

### **Lecture, February 15**

We covered the equivalence of context-free languages and the languages accepted by push-down automata from section 2.2 and the pumping lemma for context-free languages from section 2.3.

### **Lecture, February 29**

We will do examples using the pumping lemma for context-free languages. We will begin on Turing Machines from chapter 3, covering section 3.1 and beginning on 3.2.

### **Lecture, March 3 in U140**

We will finish chapter 3 and begin on chapter 4.

### **Problems to be discussed in U14 on March 7**

Note that the lecture on Monday in week 10 will (probably) be switched with the discussion section on Friday in week 10.

1. Page 187: 3.1d.
2. Page 188: 3.5, 3.7, 3.8b.
3. Page 188: 3.9
4. Page 189. 3.16a,b,d,e, 3.15a,b,d.