Institut for Matematik og Datalogi
Odense Universitet

February 4, 2000
JFB

DM11 – F00 – Lecture 1

Textbook

Kenneth H. Rosen, *Discrete Mathematics and Its Applications*, Fourth edition, McGraw-Hill, Inc., 1999. (The third edition can also be used.)

Note that answers to the odd-numbered exercises can be found at the back of the book. In addition, some concepts used in the exercises are defined between exercises, so when a problem uses a concept or notation not defined in the text, you should look to see if it is defined a bit before the problem in some question.

Some topics which will be covered in the course are not adequately covered in the text. These are covered in the notes entitled “Noter til DM11” and can be bought in the bookstore. The bookstore also has “Slides for DM11 – F96”, which includes copies of the overheads used in the course in 1996, and a compendium of exams from previous years.

Format

The course will be taught by Klaus Meer, but the first few lectures will be given by Joan Boyar. The lectures will all be in English, as will the written exam in June. There will be weekly assignments (which are not obligatory) which you should be prepared to discuss in the discussion sections (examinatorier) the week after the problems are assigned. The instructor is Morten Monrad Pedersen. The sections will be held on Wednesdays and Thursdays from 10:15 to 12:00 in U49d and U14, respecitively. (Note that neither section will meet in week 5. Both begin in week 6.) Some of the problems on some of the assignments will be marked indicating that if you give Morten Monrad Pedersen your solution to the problem, he will look at and give you comments a week later. Thus, you have the opportunity of getting advice on your proof-writing style.

The weekly notes and other information about the course is available through the WorldWideWeb. Use the URL:

http://www.imada.sdu.dk/ joan/dm11/index.html

until you get a new URL from Klaus Meer.

Lecture, February 1

We begin with an introduction to the course. Then, we will cover most of sections 1.1 through 1.7 in the textbook. Section 1.8 will not be covered in this course since it is covered in DM02.

Lecture, February 8

We will finish sections 1.1 through 1.7 of chapter 1 and begin on sections 3.1 through 3.3 of chapter 3. Sections 3.4 and 3.5 of chapter 3 will be skipped, since they are covered in other courses. The section of the notes, entitled "Structural Induction", will be covered in connection with chapter 3.

Problems to be discussed in week 6

From the 3rd edition:

7.a, 8.b, 8.c, 10.b, 10.c, 26, 27, and 28 from section 1.2.
21, 26 and 30 from section 1.3.
12 and 14 from section 1.4.
Problem 10.b from section 1.2 is probably the most challenging.

From the 4th edition:

7.a, 8.b, 8.c, 10.b, 10.c, 26, 27, and 28 from section 1.2.
35, 40 and 44 from section 1.3.
14 and 16 from section 1.4.

Spileftermiddag!

På IMADA har vi tradition for at spille. I år sker det første gang **fredag den 4. februar klokken 13.00 på 1. sal ved IMADA**. På programmet er f.eks. hex ("matematisk" brætspil), skak, ludo, trivial persuit, kort og selvfølgelig også backgammon. Bare mød op — der er øl til de hurtige — sponsoreret af fagrådet! Alle er velkomne

Hvad er fagrådet?
Det er stedet, hvor de studerende mødes, for at gøre studiemiljøet så godt som muligt på vores institut. Det er gennem fagrådet, at vi som studerende bliver hørt på instituttet. Meld dig til mail-listen på vores hjemmeside, så vil du modtage en invitation til det næste møde pr. e-mail. Gør dit for at forbedre vores studier.

Se mere på: **http://www.imada.sdu.dk/Tutor/**

Venlig hilsen Erik Vind Nielsen
Faglig tutor