Syllabus

Logika, skupovi i diskretna matematika

1. **Language**

   All lectures will be held in English. Given the fact that linguistic diversity is rather limited in mathematics, this provides an opportunity to practice and improve your language skills without having a substantial adverse effect on understanding. A Croatian-English dictionary of selected mathematical words and phrases is available from the web page of this course, `http://www.math.hr/~kressner/diskret/`. Please let us know as early as possible if you experience troubles following the lectures. Assignments and written exams may be submitted in English or Croatian. Language skills will have no influence on the grades.

2. **Schedule**

10.10.05	sets and functions
11.10.05	propositions, elementary logic operations
24.10.05	tautologies, deduction rules, Boolean algebras and functions
25.10.05	logical circuits, predicate calculus
07.11.05	integers
08.11.05	relations, midterm exam
21.11.05	relations, lattices, combinatorics
22.11.05	combinatorics
05.12.05	recursions, difference equations
06.12.05	algebraic structures
19.12.05	algorithms
20.12.05	algorithms, midterm exam
09.01.06	computable functions
10.01.06	summary
23.01.06	exam preparation
24.01.05	final exam

   Lectures take place on Mondays 8–11 AM and on Tuesdays 8–9 AM. Exercises take place on Mondays 4–6 PM and on Tuesdays 9–11 AM. This is a tentative arrangement; you are given due notice of possible changes.

3. **Course material**

   The course will follow closely parts of the book *D. Žubrinić: Diskretna matematika, 2. izdanje, Element, Zagreb, 2002.* Regularly updated lecture notes and assignments are available in electronic form from the web page of this course.

4. **Office hours**

   The easiest way of contact is to send an e-mail to `kressner@math.hr`. You may write in Croatian but writing in English is likely to have a positive effect on the response time. Additionally, there is an office hour on each of the Mondays listed above, at 11–12 AM in room B28.

5. **Grading**

   The final grade will be determined by homework assignments (50%), two midterm exams (30%), as well as the final exam (20%). Homework assignments must be submitted until Monday 6 PM.