LINEAR ALGEBRA II - SCHEDULE AND EXAMS G30 PROGRAM - 1ST YEAR

Schedule.

	Date	Tutorial $(2b)$	Topic	Textbook
1	April 12	April 14	Linear spaces and linear maps (review)	4
2	April 19	April 21	Linear maps and matrices (review)	4
3	April 26	April 28 $*$	Orthogonal transformations	5.1
4	May 10	May 12	Orthonormal bases	5.1
5	May 17	May 19	Gram-Schmidt process	5.2
			and QR factorization	
6	May 24	May 26 *	Orthogonal transformations and matrices	5.3
7	May 31		Midterm exam	
8	June 7	June 9	Introduction to determinants	6.1
9	June 14	June 16	Properties of the determinant	6.2
10	June 21	June 23	Geometrical interpretations of the	6.3
			determinant and Cramer's rule	
11	June 28	June 30 $*$	Dynamical systems and eigenvectors	7.1
12	July 5	July 7	Finding eigenvalues and	7.2
			eigenvectors of matrices	and 7.3
13	July 12	July 14	Diagonalization	7.4
14	July 19	July 21 $*$	Reviews	
15	July 26		Final exam	

Homework. Homework has to be handed in during tutorial, weeks 3, 6, 11 and 14. It will also be available on the website.

Grading.

- 10 % : homework
- 10 % : quizzes (each lecture except 1, 7, 15)
- 40 % : mid-term exam
- 40 % : final exam

Minimal requirement for passing : 60 %. Same for the tutorial.

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Textbook. Linear Algebra with Applications, Otto Bretscher, Pearson editions (available at the Central and Science libraries)

Website. http://www.math.nagoya-u.ac.jp/~demonet