Uppsala Universitet
Matematiska institutionen
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Real analysis MN1, Spring semester 2003 –

preliminary plan

Litterature: *Priciples of Mathematical Analysis*, Walter Rudin, McGraw-Hill 1976, ISBN 0-07-085613-3
Topologi och konvergens, Anders Vretblad, kompendium 1997, matematiska institutionen (in Swedish).
Apart from this additional material on topology will be handed out/presented during the lectures.

The course consists of 23 lectures. A preliminary plan for the lectures is as follows (Rx stands for Rudin chapter x, Vy for Vretblad chapter y and T for additional material on topology):

Lecture	**Content**	**Chapter**
1–5	Topology	R2, T2 and V1
6–7	Convergent sequences	R3, T3 and V2
8	Extra	
9-13	Continuity	R4, T4 and V3
14–16	Families of functions	R7, T5 and V4
17	Extra	
18–20	Differentiation	R9 and R7
21-22	Integration	R6
23	Extra	
	(Final exam May 22)	

Examination: The exam takes place on Thursday, May 24. Before that there will be a "home exam", and hand-in-assignments as part of the examnination. The hand-in-assignments and the home exam gives maximum 10 points each, and the final exam maximum 40 points. In order to pass minimum 32 points is required and "Väl godkänd" requires minimum 44 points.

The result from the hand-in-assignments and the home exam can be used at the exam in August as well.
For those who just wants to participate in the final exam the minimum result required for passing is 18 points and for "väl godkänd" 28 points, out of 40.

Homepage: Updated information about the course can be found on
`www.math.uu.se/~leifab/Reellanalys`.
Questions can be sent to
`leifab@math.uu.se`