	Lecture	Practical course	Lecture
	Monday 10:15-11:45	Monday 12:15-13:45	Saturday 10:15-11:45
1st week	Gauss elemination, vector spaces, linear independence,		
TS! MEEK	• • •		
	basis,		
2nd week	basis transzform, linear	Linear algebra I	
	transformation, determinant		
3rd week	eigenvalues, eigenvectors, scalar		
	product, orthogonal matrices,		
	symmetric matrices, Gram-		
	Schmidt orthogonalization,		
4+h l :	trace, quadratic form, Gauss-	Lincon alestere II	
4th week	Jordan elemination,	Linear algebra II	
	fundamental subspaces,		
5th week	dimension theorems, orthogonal		
	projections,		
6th week	method of smallest squares,		
	positive definit matrices, singular		primitive function, Riemann
	values, polar decomposition,	Linear algebra III	integral, properties, Fourier
	spectral decomposition,		series
7th week	sine Fourier-series, vibrating		
	string, Bernoulli solution,		
8th week	midterm test	Partial diff. eq. I	
9th week			
10th week	D'Alambert's solution, infinite	Partial diff. eq. II	
	length rod, Heat equation		
11th week	vector analysis, line integral,		
	conservative fields,		
12th week	Curl-test on plane, on space,		
	potential function, surface	vectoranalysis I	
	integrals,		
13th week	Gauss theorem, Stokes theorem		