

Chalmers/University of Gothenburg
 Department of Mathematical Sciences
 Optimization
 Ann-Brith Strömberg

TMA521/MMA510
 Project Course, Optimization
 Lp1 2011
 August 23, 2011

Course plan (may be slightly updated during the course)

Week	Day	Date	Hours	Type#	Staff	Topics
LV1 35	Tu	30/8	13–15	L1	A	Introduction, simple/hard problems, intro project 1
	We	31/8	10–12	L2	A	Facility location, overview decomp., intro netw. design
	Fr	2/9	10–12	L3	A	Lagrangian relaxation
LV2 36	Tu	6/9	13–15	L4	A	Lagrangian relaxation
	We	7/9	10–12	L5	A	Lagrangian relaxation
	Fr	9/9	10–12	L6	A	Discrete network design, Lagrangian relaxation
LV3 37	Tu	13/9	13–15	L7	M	Optimality conditions
	We	14/9				
	Fr	16/9	10–12	L8	A	Column generation
LV4 38	Mo	19/9		Deadline		Program, project 1
	Tu	20/9	13–15	L9	A	Column generation
	Tu	20/9		Deadline		Report of project 1, also to opponents
	We	21/9	10–12	L10	K	Intro, project 2
	Fr	23/9	10–12	P11	S	Presentation & opposition, project 1
LV5 39	Tu	27/9	13–15	L12	AW	Computational complexity
	We	28/9				
	Fr	30/9	10–12	L13	A+S	Tech. discussion on proj. 2
LV6 40	Tu	4/10	13–15	L14	A	Benders decomposition
	We	5/10				
	Fr	7/10		Deadline		Preliminary report of project 2 to opponents
	Fr	7/10				
LV7 41	Tu	11/10		Deadline		Final report of project 2, also to opponents
	Tu	11/10				
	We	12/10	10–12	P15	S	Presentation & opposition, project 2
	Fr	14/10				

A: Ann-Brith Strömberg, M: Michael Patriksson, K: Karin Thörnblad,
 AW: Adam Wojciechowski, S: Students, L: Lecture, P: Presentations