## MathComp compact course NLP11 by Körkel & Sager Level of Detail (-5 too fast to 5 too slow, 0 perfect)

$NLP\ introduction$	- + + + + + + + + + + + + + + + + + + +	+ 5
$Derivative\_free\ Algorithms$	+ + + + + † † † + + + + + + + + + + + +	+ 5
Linear Programming	+ + + + + + + + + + + + + + + + + + +	+ 5
Unconstrained Optimization	+ + + <sup>1</sup> + <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> + + -5 -4 -3 -2 -1 0 1 2 3 4	+ 5
Constrained Optimization	+ + + <sup>1</sup> + <sup>1</sup> <sup>1</sup> <sup>1</sup> <sup>1</sup> + <sup>1</sup> + -5 -4 -3 -2 -1 0 1 2 3 4	+ 5
SQP	+ + + <sup>1</sup> + <sup>1</sup> 1 1 1 + + + -5 -4 -3 -2 -1 0 1 2 3 4	+ 5
Globalization	+ + + + + I	+ 5
Active Set and Interior Point Methods	+ + + + + + I I I I I I -5 -4 -3 -2 -1 0 1 2 3 4	1 5
Mixed-integer Nonlinear Programming	+ + + + + + I I I I I I -5 -4 -3 -2 -1 0 1 2 3 4	1 5
Practical exercises: Octave/Matlab	+ + + <sup>1</sup> + <sup>1</sup>	+ 5
Practical exercises: AMPL	+ + + + + <sup>1</sup>	+ 5
Practical exercises: AMPL and Octave	+ + + <sup>1</sup> + <sup>1</sup> 1 1 1 1 + -5 -4 -3 -2 -1 0 1 2 3 4	1 5

## I liked the presentation (0 not at all to 5 perfect teaching)

NLP introduction	+ 0	+ 1	+ 2	+ 3	4	5
Derivative-free Algorithms	+ 0	+ 1	+ 2	3	4	<u> </u>
Linear Programming	+ 0	+	+ 2	+ 3	4	5
Unconstrained Optimization	+ 0	+	+ 2	: 3	4	5
Constrained Optimization	+ 0	+	1 2	: 3	4	<u> </u>
SQP	т О	+	+ 2	т З	4	5
Globalization	+ 0	+	+ 2	3	<u> </u>	5
Active Set and Interior Point Methods	+ 0	+	: 2	3	4	: 5
Mixed-integer Nonlinear Programming	+ 0	+	2	т 1	4	1 5
Practical exercises: Octave/Matlab					: 4	
Practical exercises: AMPL	+ 0	+	+ 2	1 3	4	5
Practical exercises: AMPL and Octave	+ 0	+	+ 2	3	<u>†</u> 4	<u> </u>

## Importance of talk for me (0 not at all to 5 highly relevant)

NLP introduction	Ξ	<del>,</del>	<del>,</del>	I	+ 4	† ! ±
Derivative-free Algorithms						
	+ 0	1	2	3	4	: 5
Linear Programming	+ ()	1	1 2	7 1	+	т 1 5
Unconstrained Optimization						-
Constrained Optimization					4	
	+ 0	+ 1	+ 2	3	т 4	5
SQP	+	+	I	<b>T</b>	4	†  -  -
Globalization						
	+ 0	+ 1	2	3	: 4	5
Active Set and Interior Point Methods	+	I 1	Ţ 	<u>.</u> 3	4	<u>.</u> 5
Mixed-integer Nonlinear Programming					4	
Practical exercises: Octave/Matlab	0	1	2	3	4	5
Tractical exercises. Octave/Mattav					4	
Practical exercises: AMPL	+	<b>T</b>	I	T 1	т 1	T 1
Practical exercises: AMPL and Octave	0					
	+ 0				: 4	