

OR2 2021-2022 (Prof. Fischetti)

Date	Topic
02/03/2022	Course introduction
04/03/2022	Project setup, data parser and solution plots
09/03/2022	Implementation, Latex documentation, Q&A
11/03/2022	Constructive heuristics: greedy, extramileage, GRASP
16/03/2022	Refinement heuristics: 2-opt
23/03/2022	Efficient implementation of the basic TSP heuristics
25/03/2022	Metaheuristics: VNS and Tabu Search
30/03/2022	Implementation, Q&A
01/04/2022	Metaheuristics: SA, Genetic Alg.s
06/04/2022	Basic CPLEX functions and TSP model in CPLEX
08/04/2022	Implementation, Q&A
13/04/2022	SEC-generating Benders' "loop" method
20/04/2022	Implementation, Q&A
22/04/2022	The patching heuristic
27/04/2022	Improved Benders' method with node limit and patching heuristic
29/04/2022	Benders' implementation, Q&A
04/05/2022	Callbacks in CPLEX
06/05/2022	Rejecting candidate sol.s through a callback (aka lazyconstraint callback)
11/05/2022	Implementation, Q&A
13/05/2022	Using ad-hoc heuristics within a callback
18/05/2022	Matheuristics: hard fixing
20/05/2022	Matheuristics: local branching
25/05/2022	Matheuristics: implementation in CPLEX
27/05/2022	Q&A, structure of the final thesis and exam's rules