COURSE DETAIL

COMPUTATIONAL OPTIMIZATION

Country
United Kingdom - England

Host Institution
Imperial College London

Program(s)
Imperial College London

UCEAP Course Level
Upper Division

UCEAP Subject Area(s)
Computer Science

UCEAP Course Number
145

UCEAP Course Suffix
N

UCEAP Official Title
COMPUTATIONAL OPTIMIZATION

UCEAP Transcript Title
COMP OPTIMIZATION

UCEAP Quarter Units
5.00

UCEAP Semester Units

3.30

Course Description

In this course, students use advanced mathematical methods to establish convexity in complex problems. In addition, students specify necessary and sufficient conditions for optimality, classify optimization algorithms as first or second order, determine appropriate optimization algorithms for given problems given the size and structure of the optimization models, and apply sensitivity analysis to optimization problems using Lagrange multipliers.

Language(s) of Instruction
English

Host Institution Course Number
COMP70007

Host Institution Course Title
COMPUTATIONAL OPTIMISATION

Host Institution Course Details
http://www.imperial.ac.uk/computing/current-students/courses/70007

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department
Computing

Course Last Reviewed
2024-2025

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