

COURSE DETAIL

LINEAR AND COMBINATORIAL OPTIMIZATION

Country

Sweden

Host Institution

Lund University

Program(s)

Lund University

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Mathematics Engineering

UCEAP Course Number

141

UCEAP Course Suffix**UCEAP Official Title**

LINEAR AND COMBINATORIAL OPTIMIZATION

UCEAP Transcript Title

LINEAR & COMB OPTIM

UCEAP Quarter Units

5.00

UCEAP Semester Units

3.30

Course Description

In science, technology, and economics, linear and combinatorial optimization problems appear more and more often. The most well-known example is linear programming, where the so-called simplex method has been of utmost importance in industry since it was invented in the middle of the twentieth century. Other important problems, such as effective data processing, contain discrete variables (i.e. integers). In connection with this, the importance of combinatorial methods has grown. This course makes students aware of problems in linear and combinatorial optimization which are important in the applications, and provides knowledge about mathematical methods for their solution. The course also helps students develop their ability to solve problems, with and without the use of a computer.

Language(s) of Instruction

English

Host Institution Course Number

FMAF35

Host Institution Course Title

LINEAR AND COMBINATORIAL OPTIMIZATION

Host Institution Course Details

<http://www.maths.lth.se/course/linkomboptnykod/>

Host Institution Campus

Engineering/Mathematics

Host Institution Faculty

Host Institution Degree

Host Institution Department

Engineering - Mathematics

Course Last Reviewed

2020-2021

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