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 Campus
Engineering/Mathematics

Host Institution Faculty

Host Institution Degree

Host Institution Department
Engineering - Mathematics

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