

DM865 (10 ECTS)

Heuristikker og Approximationsalgoritmer

[Heuristics and Approximation Algorithms]

dm865.github.io

Spring semester

Lene Monrad Favrholt • Marco Chiarandini

lektorer, IMADA

Course Formalities

Prerequisites:

- ✓ Programming (DM502, DM503, DM550)
 - ✓ Algorithms and Datastructures (DM507)
 - ✓ Complexity and Computability (DM508, DM553)
 - ✓ Linear and Integer Programming (DM559, DM545, DM554)
-

Semester:

3rd (but challenging), 5th, Master

Credits:

10 ECTS

Language:

English and Danish

Classes:

intro: $2h \times 24$; training: $2h \times 20$

Material:

slides + articles + lecture notes + starting code

Assessment (10 ECTS)

- Two practical project assignments passed/failed with internal censor by the teacher
- Oral exam based on:
 - the theoretical part
 - two practical assignments

Grading by the danish 7-mark scale, external marking. Exam aids allowed.

Contents

	Apporx Algorithms	Local Search + Meta-heuristics
Set Cover		
Satisfiability		
Traveling Salesman		
Scheduling		
Knapsack		
Bin packing		
Bin Packing		

DM865 (10 ECTS)

Heuristikker og Approximationsalgoritmer

[Heuristics and Approximation Algorithms]

dm865.github.io

Spring semester

Lene Monrad Favrholt • Marco Chiarandini

lektorer, IMADA