

# OPTIMIZATION ALGORITHMS

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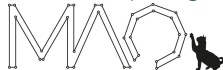


UNIVERSITÀ  
DEGLI STUDI  
DI BRESCIA

Prof. **Renata Mansini**

Academic year 2021/2022

Research Group MAO@DII



Models and Algorithms for Optimization at Department of Information Engineering

Website: <https://or-dii.unibs.it/>

## **Relevant information and a brief course overview**

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🕒 Office hours: Thursdays from 11:00 am to 12:00 pm

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Make an online appointment by sending an email!

The exam (in English) consists of 3 parts:

- **a written exam** (3 open questions) - (mark: max 30/30)
- **a group project** to be discussed - (mark: max 25/30)
- **a group midterm presentation** (flipped lesson) - (mark: max 5/30)

## The final mark

$$\frac{\text{written test} + (\text{project} + \text{presentation})}{2}$$

# Overview of the course

- Introduction to Combinatorial Optimization.
- Heuristic and meta-heuristic algorithms.
- Exact Algorithms.
- Polynomial network flows problems.
- Introduction to Arc Routing Problems.
- Approximation algorithms.