Operations Research M (Master's Degree Course)

Information

- **Module 1 Mathematical Optimization (48 hours):**
  Prof. Silvano Martello (DEI, 3rd floor) `silvano.martello@unibo.it`;

  Office hours: Monday, 6:00pm–8:00pm.

- **Module 2 Discrete Simulation (16 hours):**
  Prof. Andrea Lodi (DEI, 4th floor and Cornell Tech, NY) `andrea.lodi@unibo.it`.

  Office hours: by email appointment.

- We **answer to emails only if**

  – they come from an official Unibo email address;

  – the answer is very short (< 1 line).

- **Tutor for Module 1: Dr Alberto Locatelli** (**Università di Modena e Reggio Emilia**)

  Consultation: After each exercise or by email: `alberto.locatelli@unimore.it`.

- **Home page:** `www.or.deis.unibo.it/staff_pages/martello/cvitae.html`
                  (or google my name) $\rightarrow$ **link Courses:**

  – didactic tools (slides, exercises, applets, applications, …);

  – dates of exam sessions;

  – written test results;

  – announcements.

- **Official home page** (official announcements):
  `https://www.unibo.it/it/didattica/insegnamenti/insegnamento/2019/385358`

  Additional material available on **Virtuale** `https://virtuale.unibo.it/`

- **Assessment method:** written test, followed, if successful, by an oral/written test.

- **Mandatory online registration at Almaesami at least two working days in advance** (no excuse is accepted);
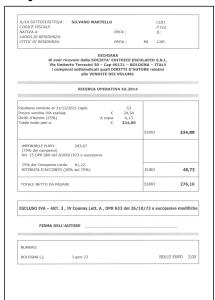
- **Written test:**
  - solution of two numerical exercises (one per module). The two exercises must be solved in the **same written test**;

  - approximate duration $\lesssim 1 + 1$ hours;

  - **permitted:** books, handwritten notes, printout of slides, non-programmable calculators;

  - **not permitted:** programmable calculators, mobiles, laptops, copies of books;

  - **marked tests** only available on the settled date;

  - when the test is handed in for the first time, a **3 point bonus** is added to the overall mark;

  - the **written test mark** is given by:
    score of the test on Module 1 + score on the test on Module 2 + bonus (the first time only).

  - **if a student is caught cheating** her/his 3 point bonus will be canceled, and a negative mark will officially be registered.

- **Oral test:** theoretical contents of Module 1;

  - **deadline:** given $k =$ examination session in which a positive mark in the written test has been obtained, the oral test must be taken within examination session $k + 2$;

  - in case of failure of the oral exam, the mark obtained in the written test is preserved (within its validity window);

  - the students who decline to record the obtained overall mark must repeat both the written and the oral test.

- **Overall mark** $= \lceil \frac{2}{3}$ (written test mark) $+ \frac{1}{3}$ (oral test mark) $\rceil$.

- **Permitted: nothing. If a student is caught cheating** her/his written test score will be canceled, and a negative mark will officially be registered.

- **Didactic tools:**
  - **textbook** (with **exercise solutions**):
    S. Martello, Ricerca Operativa, **II Ed. 2021**, Esculapio, Bologna.▮

    Royalties are donated to **charitable foundations**, **illegal copies will not be tolerated!**

  - The textbook includes the lectures of **Network Optimization M**.▮

  - **Slides** available at the course home page. It is recommended to **print** the slides, and to **switch off** laptops, smartphones and cellphones during lectures. ▮

  - **Applications** and **exercise solutions** available at the course home page;

  - **other exercise solutions**: *S. Martello, D. Vigo, Esercizi di Ricerca Operativa*, Esculapio.
    S. Martello, D. Vigo, Esercizi di Simulazione Numerica, Esculapio. ▮