

Calculus of Variations - 2023

– **Teacher:**

Roberto Monti

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Web-pages and Moodle-page:

<http://www.math.unipd.it/~monti/didattica.html>

<http://www.math.unipd.it/~monti/CdV2023.html>

<https://stem.elearning.unipd.it/course/view.php?id=4631>

– **Schedule:**

Monday 10.30–12.30 Room 2BC60

Wednesday 10.30–12.30 Room 2BC60

Friday 10.30–12.30 Room 1BC45

– **First lesson:** the course will start Monday 27th February.

– **Office hours:** Wednesday 2-4pm in Office 401: always contact me by mail before coming.

– **Structure of the course:** The course will be in English with lectures at the blackboard. The teacher will illustrate a wide range of problems and ideas in the Calculus of Variations. Homeworks will be a very important part of the course. There will be 4 or 5 “Exercises sheets” with problems to solve. The student is invited to work on these exercises and after a couple of weeks he can return his solutions. This is not obligatory, this is a choice of the student.

– **Lecture notes:** In the web-site and in the Moodle-page you will find the Lecture Notes of the course. They are hand-written, in Italian and English. The teacher will closely follow these notes. In the web-pages and in the Moodle page, you will also find the “Exercises-sheets”. They will be published during the course.

– **Video resources:** At the Moodle-page of Calculus of Variations 2022

<https://elearning.unipd.it/math/course/view.php?id=941>

you can find the video-recordings of last year’s lectures. If you miss some lecture you are likely to find the recording of a very similar lecture at this link.

- **Exam:** The student has two options:
 - 1) He can return his solutions to the homeworks (paper sheets or pdf are both fine). At the end of the course, the teacher will propose a final grade based on the correction of the homeworks.
 - 2) Alternatively, the student can take an oral exam on the program of the course.
- **Dates for the oral exam:** To be fixed according to the needs and preferences of the students.
- **Exams and Uniweb:** In order to take an exam you must always register in Uniweb, also if you choose the homeworks-option. So please register in uniweb at the appropriate time (at the end of the course).
- **Program and bibliography:** You can find them in a separate pdf file.