

## Calculus of Variations - 2020

– **Teacher:**

Roberto Monti

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Web-page:

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

<http://www.math.unipd.it/~monti/CdV2020.html>

– **Schedule** (Room 2AB45):

Monday 16.30–18.15

Tuesday 16.30–18.15

Wednesday 10.30–12.15

– **First lessons:** the lecture will start Monday 16th March. The first lessons will be recorded (audio and video) and will be put on-line. The lecture will continue normally in Room 2AB45, as soon as the University opens again.

– **Office hours:** Wednesday 2-4pm in Office 401: always contact me by mail before coming. As long as the university is closed, office hours are by mail.

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

– **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 lecture, 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:**

June 25th

September 1st

If you have problems with these dates we will arrange other exam-sessions according to any specific need.

– **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 lecture).

- **Lecture notes:** In the web-site of the course you will find the Lecture notes. They are hand-written, in Italian and partly in English. The first 100 pages are already available. The second part of the lecture notes is in preparation. The teacher will closely follow these notes.  
In the web site, you will also find the “Exercises-sheets”.
- **Program and bibliography:** You can find them in the next pdf file.