

Optimization and Numerical Methods

About Course

2019 – 2020

1. **Instructors:** Geert Molenberghs (Coordination)
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2. **Course Format & Schedule:**

The course is organized in a dual format:

- First, web lectures need to be followed (for links, see bottom of this document).
- Second, the course notes also contain exercises. It is very strongly recommended to try these.
- Third, a two-day contact session is organized (for schedule, see below; organized as 6 sessions).
- It is important to clearly see the goals of the two-day contact session:
 - It is not intended to introduce additional material.
 - It is intended to work on a selected set of exercises (mentioned above).
 - It is also intended to resolve problems and concerns.
 - The lecturers will also be able to paint the broader picture behind the material covered in the various chapters.

Again, these are not formal lectures; it is important that the web lectures are watched prior to the contact session and that exercises are tried.

- Important: questions can be submitted prior to the face-to-face sessions, by way of the “Discussion Board” on Toledo or by emailing them to the teacher. **Participants are strongly encouraged to submit questions ahead of time; it allows for efficient face-to-face sessions.**
- Students are encouraged to bring their own software (on their own device). This can be used for some of the exercises. Evidently, the instructors are not necessarily familiar with a given software tool.

Note, one of the web lectures is a brief overview of the entire course, with useful information and suggestions.

Session	Date	Instructor	Time
1	November 26, 2019	Francis Tuerlinckx	10:30–12:15
2	November 26, 2019	Geert Molenberghs	13:15–15:00
3	November 26, 2019	Tom Wilderjans	15:30–17:15
4	November 27, 2019	Katrijn Van Deun	08:45–10:30
5	November 27, 2019	Geert Molenberghs	11:00–12:45
6	November 27, 2019	Francis Tuerlinckx	13:45–15:45
A	December 10, 2019	All	09:00–11:00
Exam	January 13, 2020	—	09:00–11:30

Course Material

1. The **course notes**, prepared by the instructors are mandatory course material. They will be provided in digital form through Toledo or by email.

The course notes contain a list of references with additional reading. The additional reading is optional.

2. **Web lectures:**

<https://videolab.avnet.kuleuven.be/jukebox/?album=762b4b55c5315064f11d103dbd059a00>

or through the Toledo site of the course.

3. A document with solutions to the exercises is made available after the Q&A contact sessions.

For IOPS students, a guest account can be made on Toledo. Please send your name and email address to Francis Tuerlinckx for such a guest account.