IOPS-course Optimization and Numerical Methods

About Course and evaluation

2023 – 2024

Online Only!

1. **Instructors:** Geert Molenberghs (Coordination)
   geert.molenberghs@kuleuven.be
   
   Francis Tuerlinckx
   francis.tuerlinckx@kuleuven.be
   
   Katrijn Van Deun
   k.vandeun@tilburguniversity.nl
   
   Tom Wilderjans
   t.f.wilderjans@fsw.leidenuniv.nl

2. **Course Format & Schedule:**
   The course is organized in the following format:
   
   - First, web lectures need to be followed (for links, see bottom of this document). This can be done in the course participants’ own time.
   - Second, the course notes also contain exercises. It is very strongly recommended to try these.
   - Third, a total of six online Question&Answer (Q&A) sessions are organized, in real time (three by Geert, two by Katrijn, one by Tom)
   - It is important to clearly see the goals of the Q&A sessions:
     - It is not intended to introduce additional material.
     - It is intended to respond to questions regarding course material and exercises.
     - In these Q&A sessions, 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 Q&A 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 use 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.

<table>
<thead>
<tr>
<th>Q&amp;A Session</th>
<th>Date</th>
<th>Instructor</th>
<th>Time</th>
<th>Chapters</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>October 10, 2023</td>
<td>Geert Molenberghs</td>
<td>10:00–12:00</td>
<td>1–3</td>
</tr>
<tr>
<td>2</td>
<td>October 16, 2023</td>
<td>Geert Molenberghs</td>
<td>10:00–12:00</td>
<td>4,6</td>
</tr>
<tr>
<td>3</td>
<td>October 24, 2023</td>
<td>Tom Wilderjans</td>
<td>10:00–12:00</td>
<td>5</td>
</tr>
<tr>
<td>4</td>
<td>November 7, 2023</td>
<td>Katrijn Van Deun</td>
<td>10:00–12:00</td>
<td>7</td>
</tr>
<tr>
<td>5</td>
<td>November 13, 2023</td>
<td>Katrijn Van Deun</td>
<td>10:00–12:00</td>
<td>8</td>
</tr>
<tr>
<td>6</td>
<td>November 21, 2023</td>
<td>Geert Molenberghs</td>
<td>10:00–12:00</td>
<td>9–11</td>
</tr>
</tbody>
</table>

Note that chapter 12 is not yet added to this table!

3. Evaluation:
   - The evaluation (passed or not) is based on active participation during the six sessions

Course Material

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

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

2. Web lectures:

   https://kuleuven.mediaspace.kaltura.com/playlist/dedicated/1_254yohus/

   or


   or

   https://videolab.avnet.kuleuven.be/jukebox/?album=762b4b55c5315064f11d103dbd059a00
3. A document with solutions to the exercises is made available after the Q&A contact sessions (provided by email).