

First steps (Numerical Methods, BMEEOFTMK51)

- Check the Numerical methods subject web page in moodle (edu.epito.bme.hu). All the necessary information are there!

(<https://edu.epito.bme.hu/local/coursepublicity/publiccourses.php?publicityid=1971>)

- Install Matlab to your computer using a BME email address or use online Matlab (you will need the Symbolic Math, Optimization, Global optimization, Mapping, Image Processing, Curve Fitting, Statistics and Machine Learning Toolboxes)

- Please create a MathWorks Account and solve the [Matlab Onramp](#) online tasks!

- Check the [Detailed course schedule](#)

(<https://edu.epito.bme.hu/local/coursepublicity/mod/resource/view.php?id=84172>)

- Read the related sections from the [Numerical methods for Civil Engineers \(2019\)](#) book if you missed some classes and solve the related tasks.

(<https://edu.epito.bme.hu/local/coursepublicity/mod/resource/view.php?id=81899>)

- You can check recorded videos also from 2020/21:

<https://edu.epito.bme.hu/local/coursepublicity/mod/page/view.php?id=88789>

- You can also check the folder of your lecturer for more actual material.

About the semester in detail

- The [detailed course schedule](#) for every course is on the [moodle site](#) (<https://edu.epito.bme.hu>)
- We'll keep the moodle site up-to-date. You can find there all necessary info. Each actual practice materials will be available at the 'Materials by lecturers' part in the folder of your lecturer.
- The practice materials from earlier years can be found together in the [Numerical methods for Civil Engineers \(2019\)](#) book (see in moodle)

Requirements

100 points can be achieved in the semester, 50 points are required to pass

- 2 Midterm Tests (30 points each, min. 12 points each, max. 60 points)
- 10 practice exercises (3 points each, max. 30 points, each task can be solved twice, the last result counts.)
- 2 short tests (5 points each, max. 10 points)
- There will be optional homework for ten extra points for small groups of 3-4 students.

You can only retake the tests, which got a minimum requirement!

Please keep in mind: if you only pass the midterms with min. points, you need to get more points from other sources above to pass the 50 point limit!

Midterm Tests

- 30 points each, min. requirement is 12 points.
- 1st midterm test: **7th educational Week,**
- 2nd midterm test: **14th educational Week**

Practice tests

- These exercises are short tasks related to a specific topic.
- 3-3 points can be achieved by solving the tasks
- These are available for at least one week after the related topic. You'll see the due date on the moodle site.
- The first task is a bit longer; therefore, it has a more extended due date:
 - Please do the official [Matlab Onramp](https://www.mathworks.com/learn/tutorials/matlab-onramp.html) tutorial that covers the basics of Matlab usage!(<https://www.mathworks.com/learn/tutorials/matlab-onramp.html>)

Short tests

- Each test is 5 minutes long, a maximum of 5 points for each.
- Written at the start of the practices.
- Dates: check the detailed course schedule on the moodle site!
- Topics and practice tests will be available on the website.

Matlab

During the practices we'll work in a MATLAB environment, you can also install it at home with a Campus license, just follow the related guide on the subjects website!