

Numerical Methods 1 – assessment regulations (summer semester 2022/2023)

Contact hours: lecture (2h a week) + tutorials (1h a week) + lab. (1h a week).

I. Main topics

1. Numerical methods for solving linear systems of equations.
2. Conditioning of a numerical problem.
3. Polynomial interpolation.
4. Numerical methods for solving nonlinear equations.
5. Numerical integration.

II. Tutorials

See the document: “Tutorials assessment regulations”.

III. Laboratories

- MATLAB (7 meetings) – (0-9 points in total)
- Numerical project (0-18 points)

All programs should work properly under the 2022a version of Matlab with no toolboxes or additional libraries installed.

Note. A teacher may summon a student and interview her/him about her/his solution. If it is revealed that the student has not been working by her/himself (e.g., the student fails to explain a part of her/his own program), the student obtains minus 40 points (–40 points). These points are added to the total number of points collected by the student (from laboratories and tutorials), however, they do not cause failure to pass the laboratories.

IV. Exam (0-50 points)

Assessment regulations

In order to pass the subject, a student must:

- collect at least 5 points from tutorials,
- collect at least 3 points from MATLAB laboratories' and 6 points from the numerical project (possible –40 points of plagiarism penalty is not taken into account here),
- collect at least 15 points from the exam,
- collect more than 50 points (in total – all points count here).

Final grade is based on the total sum of collected points:

(50; 60]	→	3.0
(60; 70]	→	3.5
(70; 80]	→	4.0
(80; 90]	→	4.5
(90; ∞)	→	5.0