



P000068, Introduction to programming in Matlab, 3.0 Hp

Syllabus

Finalized by: Finalized by: Fun-VH, 2023-08-29, 2023-08-29

Level within study regulation:

Third cycle

Subject:

- Technology

Grading scale:

Pass / Failed

Course language:

Swedish

Entry requirements:

Admitted to a postgraduate program. The course is suitable for all graduate students, no prior programming experience is required.

Objectives:

On completion of the course, the student should be able to:

- Explain different common concepts in programming such as conditions, loops and functions.

- Apply their knowledge of programming practices to structure and debug code in a systematic way
- Assess code in terms of correctness, readability and reusability
- Use their knowledge of Matlab to read, process and display data from their own research project

Content:

The course will give basic skills in reading, processing and displaying data using Matlab, but also use Matlab as an example language for generic programming skills. The course covers concepts such as data types, loops and conditional statements, functions and object oriented programming. It will also give an introduction to coding best practices and how to efficiently structure and debug code.

Lectures 16h, Computer labs 16h, Own study 24h, Programming assignment 16h, Code review 4h, Presentations 4h

Modes of assessment:

Programming assignment where the student will get to utilize the acquired skills on their own research data (or example data if the student has no suitable data set). The students should also perform code reviews on each other's assignments. - If a student has failed an examination, the examiner has the right to issue supplementary assignments. This applies if it is possible and there are grounds to do so.

- The examiner can provide an adapted assessment to students entitled to study support for students with disabilities following a decision by the university. Examiners may also issue an adapted examination or provide an alternative way for the students to take the exam.
- If this syllabus is withdrawn, SLU may introduce transitional provisions for examining students admitted based on this syllabus and who have not yet passed the course.
- For the assessment of an independent project (degree project), the examiner may also allow a student to add supplemental information after the deadline for submission. Read more in the Education Planning and Administration Handbook.

Organisation:

Department of Anatomy, Physiology and Biochemistry

Supplementary information

Other information:

- The right to participate in teaching and/or supervision only applies for the course instance the student was admitted to and registered on.
- If there are special reasons, students are entitled to participate in components with compulsory attendance when the course is given again. Read more in the Education Planning and Administration Handbook.