

Introduction to Programming

Subject area: Computer Science/ICT

University: TalTech
Level: BA1, BA all years, MA1
Teaching mode: completely online, not time-specific
Instructor(s): Ago Luberg

Short description

Introduction to Programming gives practical tools and experience to write shorter algorithms in Python. It develops logical, analytical and algorithm-centred thinking and systematic approach to problems and problem solving.

Full description

<https://iti0102.pages.taltech.ee/eng/>

Learning outcomes

After completing the course the student:

- Should be able to apply most of the fundamental structures of Python programming languages
- Should have analytical skill needed for solving smaller computational problems in Python programming language
- Knows how to debug the written code
- Should be able to write unit tests
- Should be able to write documented clean code which conforms with the coding standard
- Is able to make connections between computer science fundamentals and practical programming tasks

General information

Contact hours per week: 10 hours (online)
Total workload: 156 (in student hours for the whole course)
ECTS credits: 6
Language: English

Course start date:	29 August 2022
Course end date:	18 January 2023
Add. info about start date:	Information about the course will be provided in August (also published in the web page)
Weekly teaching day/time:	Will be agreed on with the students. We will organize Discord server for communication and online sessions every other week.
Time zone:	CET +1 (Estonia, Israel)
Further information:	More information will be provided in the web page.
Prerequisites:	No prior programming experience is required. The course is taught in English (and Estonian), understanding of the language is required. Also a computer to work with is required (can be a computer at student's institute).
Activities and methods:	Lectures, Seminars, Self-study, Practices, Exercises
Presence on campus:	Not required

Final examination

Form:	programming with proctorio (screen and camera recording) or in home institution (if applicable)
Date:	
Location/format:	With screen recording or in host/home institution
Re-sit possibility:	yes
Transcript available:	end of semester
Add. info/requirements:	Examination with camera and screen recording during the whole exam. Can be taken also in institution (will be agreed on with the students).

Registration

To register for this course, follow the registration requirements of your **home university** as specified here: www.euroteq.eu/courses-registration.

Administration

Number of places:	100
Minimum participants:	5
Internal course code:	ITI0102

Contact: ago.luberg@taltech.ee

This course is part of the EuroTeQ Engineering University joint course catalogue 2022/2023. This is a collaborative activity of the partner universities DTU, L'X, TU/e, TalTech, CTU, TUM as well as Technion. Students from these universities can participate in the offered courses. It is the responsibility of the student to check if you fulfil the requirements to participate in a specific course. Students are also advised to check with their home institution how to get recognition of the ECTS credits gained in courses of the EuroTeQ course catalogue. For further information about EuroTeQ Engineering University, visit www.euroteq.eu or get in touch with the above-mentioned point of contact.