Introduction to Processing Language with Python (A704064)

Course Specifications
Valid as from the academic year 2020-2021

Due to Covid 19, the education and evaluation methods may vary from the information displayed in the schedules and course details. Any changes will be communicated on Ufora.

Lecturers in academic year 2020-2021
Goethals, Patrick
Tezcan, Arda

Course offerings and teaching methods in academic year 2020-2021
A (semester 1) English Gent
seminar: practical PC room classes 22.5 h
self-reliant study activities 22.5 h

Offered in the following programmes in 2020-2021
Master of Arts in Advanced Studies in Linguistics (main subject Natural Language Processing: Theory and Practice)
Postgraduate Certificate Computer-Assisted Language Mediation

Teaching languages
English

Keywords
Programming, Python, automatization, text analysis

Position of the course
This course offers an introduction to programming with Python. It does not require prior knowledge about programming. The focus of the course is on automatic text processing.
Programming skills have a number of benefits:
- An understanding of the functioning and possibilities of computer programs is becoming ever more important in a society where technology is omnipresent
- Programming trains analytical thinking and problem-solving skills
- Repetitive or data-intensive tasks can be automated with simple programs

Contents
The course deals with the following topics:
- basic concepts of programming: variables, operators, assignment, data types
- control structures: conditions, loops, recursion
- using and writing functions
- working with files and directories
- using external libraries, especially those developed for text analysis
- anatomy of a computer program
- calling scripts in a command line environment
- documentation and error handling

Initial competences
Basic computer skills

Final competences
1 Having general knowledge about how computer programs work
2 Having the practical knowledge and skills to develop simple computer programs
3 Capacity to break down an assignment into smaller subtasks
4 Ability to find and correct bugs in code

Conditions for credit contract
This course unit cannot be taken via a credit contract

(Approved)
Conditions for exam contract

This course unit cannot be taken via an exam contract

Teaching methods

Self-reliant study activities, seminar: practical PC room classes, online seminar

Learning materials and price

Handouts and materials for download on Ufora.
Students should have a laptop and bring it with them to the class.

References


Course content-related study coaching

Discussion forum on Minerva
Possibility to contact lecturers via e-mail

Evaluation methods

end-of-term evaluation and continuous assessment

Examination methods in case of periodic evaluation during the first examination period

Examination methods in case of periodic evaluation during the second examination period

Examination methods in case of permanent evaluation

Assignment

Possibilities of retake in case of permanent evaluation

examination during the second examination period is possible

Extra information on the examination methods

Students must take at least 80% of the lessons, and also prepare the lessons thoroughly.
The assignment consists of a final project that the students define individually or in groups of 2 or 3 students, after consultation with the teacher. Every student should be able to explain the full code of the end result of the project. In case of an insufficient participation in the group, the student will be given an individual assignment.
The test basic skills evaluates whether the student masters the coding techniques.
Second exam opportunity:

idem

Calculation of the examination mark

Assignment (50%)
Test Basic Skills (50%)
In order to pass this course unit the student should obtain at least 10/20 as total score, and 8/20 for both the test and the project. If this is not the case, the score will be reduced to 9/20.

Facilities for Working Students

Can be requested from the learning track counsellor

(Approved)