CCNM17-113: Computer Programming
Course Description

**Aim of the course**

**Aim of the course:** Students will be able to write and modify simple scripts, to run experiments, analyze data and simulate models.

**Learning outcome, competences**

Knowledge:
- write and modify simple scripts
- run experiments

Attitude:
- comprehensive practical interest

Skills:
- experimental designs

**Content of the course**

**Topics of the course**
- Bases of computer programming
- Python and Matlab
- Experimenting software use: OpenSesame and PsychoPy
- Data analysis with Python: numpy, pandas, scipy, statsmodels, matplotlib
- Simple simulations with Python

**Learning activities, learning methods**

Lectures and practical

**Evaluation of outcomes**

**Learning requirements, mode of evaluation, criteria of evaluation:**

Requirements
- attendance
- designing Python scripts, analysis or simulation

Mode of evaluation: examination and practical course mark

Criteria of evaluation:
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**Reading list**

**Compulsory reading list**
- Relevant documentation and tutorials of the programming languages and software

**Recommended reading list**
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