

## Course Descriptions Bachelor 2021-2022

Course Title Python and Web Design  
 Course Code EBS2070  
 ECTS Credits 4,0  
 Assessment Whole/Half Grades

| Period | Period | Start     | End       | Mon | Tue | Wed | Thu | Fri |
|--------|--------|-----------|-----------|-----|-----|-----|-----|-----|
|        | 3      | 10-1-2022 | 21-1-2022 |     |     |     |     |     |

Level no level

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Language of instruction English

Goals

- \* Students are able to explain and use basic concepts in programming, program using Object-Oriented paradigm, develop basic programs in Python and use Test-Driven-Development to construct a solution.
- \* Students are able to use external libraries with Python, use web-development frameworks to deploy applications and dashboards in combination with Plotly and integrate REST APIs.
- \* Students select appropriate programming techniques to design, test and implement basic algorithms in Python.
- \* Students are able to create meaningful unit tests.
- \* Students can explain the reasoning of the developed programs.
- \* Students collaborate in teams of two to develop a solution.

Description This skills period is a follow up of the (just) completed course on programming in Java. The purpose of this course is twofold: i) to learn Python as one of the most popular and used languages, and ii) to learn several useful techniques for web and app design. The course will be offered jointly by IDS and DAD.

Formative assessment: Feedback by tutors and peers  
 Summative assessment: Participation and assignment  
 Instructional approach: Lectures and tutorials

Literature

Prerequisites

Keywords

Teaching methods

Assessment methods

Evaluation in previous academic year For the complete evaluation of this course please click <http://iwio-sbe.maastrichtuniversity.nl/rapporten.asp?referrer=codeUM>

This course belongs to the following programme / specialisation

Bachelor Business Analytics

Year 2 Compulsory Skill(s)