



Course title: ADVANCED PYTHON

ECTS credit allocation (and other scores): 3

Semester: autumn

Level of study: ISCED-7 - second-cycle programmes (EQF-7)

Branch of science: Natural sciences

Language: English

Number of hours per semester: 15 lectures + 30 classes = 45 hours

Course coordinator/ Department and e-mail: Erasmus coordinator Anna Szczepkowska/ WMil,
anna.szczepkowska@matman.uwm.edu.pl

Type of classes: classes and lectures

Substantive content

CLASSES: Introduction to advanced Python features.

LECTURES: Discussion of selected issues.

Learning purpose: Introduction of advanced python language functionalities for data science.

On completion of the study programme the graduate will gain:

Knowledge:

A student knows selected issues needed to create advanced data mining projects - using the python language.

Skills: A student has appropriate skills to create data mining projects - including group work.

Social Competencies:

Thanks to the acquired knowledge, the student is aware of the need to follow the latest trends, develop in a professional and social context. He or she knows the ethical limitations of using the learned techniques.

Basic literature: Luciano Ramalho, Zaawansowany Python, wyd. PWN, 2015

Supplementary literature:

The allocated number of ECTS points consists of:

Contact hours with an academic teacher: 1,60 ECTS points

Student's independent work: 1,40 ECTS points