COURSE DETAIL

PROGRAMMING FOR LANGUAGE STUDIES

Country
Italy

Host Institution
University of Bologna

Program(s)
University of Bologna

UCEAP Course Level
Upper Division

UCEAP Subject Area(s)
Computer Science

UCEAP Course Number
151

UCEAP Course Suffix

UCEAP Official Title
PROGRAMMING FOR LANGUAGE STUDIES

UCEAP Transcript Title
PROGRM LANG STU

UCEAP Quarter Units
6.00

UCEAP Semester Units
4.00

Course Description

This course is part of the Laurea Magistrale degree program and is intended for advanced level students. Enrolment is by permission of the instructor. The course consists of theoretical lessons and practical sessions. In each lesson, after a theoretical introduction, a practical session takes place in which the student is asked to experience the introduced topic first-hand. The course is organized in two modules. The first module covers basic programming concepts, the second module covers advanced topics. The topics of the lectures include:

- Introduction to programming
- Introduction to the Python language
- Importing and Exporting data and text in Python
- Manipulating data and text in Python
- Describing and visualizing data in Python
- Libraries for Machine Learning

At the end of the course, the student has competences on theoretical and practical foundations for the acquisition, manipulation, and analysis of text and data using computational tools. Furthermore, the student will be familiar with the methodological foundations for the development of scripts for natural language processing. They know and use the fundamental algorithms and data structures and are able to build and interpret graphs that show descriptive statistics of the data collected in order to facilitate its analysis.

Language(s) of Instruction
English

Host Institution Course Number
B5312

Host Institution Course Title
PROGRAMMING FOR LANGUAGE STUDIES

Host Institution Campus

BOLOGNA

Host Institution Faculty

Host Institution Degree
LM in LANGUAGE, SOCIETY AND COMMUNICATION

Host Institution Department
MODERN LANGUAGES, LITERATURE, AND CULTURES

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