

Online course: Programming in Python. Basic level

UOC - VASS Foundation Chair in Digital Transformation without Barriers: Employability and Inclusion

20 October 2025 to 28 November 2025

Duration: 6 weeks **Total hours of synchronous online sessions:** 18 h | **Language:** Spanish

Objectives: This course provides a gradual introduction to programming in Python, beginning with the foundations of computational thinking and the basic concepts of the language. As the course progresses, you'll study control structures, functions, and the use of scientific libraries for data analysis.

Content:

Module 1. Computational thinking: basic concepts, programming and introduction to Python (duration: 2 weeks).

- Synchronous online teaching
 - Session 1 - Tuesday, October 21, from 5:00 PM to 6:30 PM
 - Session 2 - Friday, October 24, from 3:00 PM to 4:30 PM
 - Session 3 - Tuesday, October 28, from 5:00 PM to 6:30 PM
- Case Study - 3 hours
- Teaching Presentation - Thursday, October 30, from 5:00 PM to 6:30 PM

Module 2. Control structures and functions in Python (duration: 2 weeks).

- Synchronous online teaching
 - Session 1 - Tuesday, November 4, from 5:00 PM to 6:30 PM
 - Session 2 - Friday, November 7, from 3:00 PM to 4:30 PM
 - Session 3 - Tuesday, November 11, from 5:00 PM to 6:30 PM
- Case Study - 3 hours
- Teaching Presentation - Friday, November 14, from 5:00 PM to 6:30 PM

Module 3. Scientific libraries in Python (duration: 2 weeks).

- Synchronous online teaching
 - Session 1 - Tuesday, November 18, from 5:00 PM to 6:30 PM
 - Session 2 - Friday, November 21, from 3:00 PM to 4:30 PM
 - Session 3 - Tuesday, November 25, from 5:00 PM to 6:30 PM
- Case Study - 3 hours
- Teaching Presentation - Friday, November 28, from 5:00 PM to 6:30 PM

Cross-disciplinary module. How can AI help you program in Python?

- Teaching presentation - Monday 1/12 from 5:00 PM to 6:30 PM

Teachers: Joan Maynou (UOC teaching staff) and José Samuel Berigüete (Vass Foundation expert).

Number of places: 20

If the number of applications exceeds the number of places offered, places will be awarded based on the motivation letter submitted by the applicant.

Admission requirements: Documentary evidence of:

- recognition of a disability equal to or greater than 33% by submitting any of the documents required by current regulations.
- personal motivation letter.

The deadline for submitting applications, along with the required documentation, is September 17, 2025.

Price: This course is free.

Qualification: Upon completion of the course, applicants will receive a certificate of achievement issued by the UOC in collaboration with the VASS Foundation.

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