

Degree programme	Type	Course
Interactive Communication	FB	1

Contact lecturer

Name : Juan Carlos Sebastián Pérez

Email : juancarlos.sebastian@uab.cat

Prerequisites

It is recommended to have passed the subject of Introduction to Algorithms

Group languages

You can consult this information at the [end](#) of the document.

Objectives

1. Learn about programming languages
2. Learn Python

Learning outcomes

- CM09 (Apply the principles of algorithms and programming to proposals for interactive communicative projects within the framework of a professional practice that is sensitive to society's problems and challenges.) Apply the principles of algorithms and programming to proposals for interactive communicative projects within the framework of a professional practice that is sensitive to society's problems and challenges.
- CM10 (Design interactive communicative projects with the Python programming language in accordance with the principles of ethical responsibility and respect for fundamental rights and duties, diversity and democratic values.) Design interactive communicative projects with the Python programming language in accordance with the principles of ethical responsibility and respect for fundamental rights and duties, diversity and democratic values.
- CM11 (Create and develop applications with the Python programming language in the field of interactive communication autonomously with initiative and proactivity.) Create and develop applications with the Python programming language in the field of interactive communication autonomously with initiative and proactivity.
- KM07 (Explain the basic conceptual and practical concepts, languages and application of algorithms and programming in a programming environment.) Explain the basic conceptual and practical concepts, languages and application of algorithms and programming in a programming environment.
- KM08 (Identify the specific aspects of an information system with respect to its architecture, protocols, storage systems, languages, features and applications.) Identify the specific aspects of an information system with respect to its architecture, protocols, storage systems, languages, features and applications.
- SM08 (Use programming principles to turn a specific problem into a programme that solves it.) Use programming principles to turn a specific problem into a programme that solves it.
- SM09 (Know the defining elements of an information system.) Know the defining elements of an information system.

- SM10 (Use the Python programming language in interactive communication projects) Use the Python programming language in interactive communication projects

Contents

1. introduction to the programming languages

2. Python as a programming language

2.1 Conditional sentences, repetitive sentences...

2.2. Data structures

Learning activities and methodology

Title	Hours	ECTS	Learning outcomes
Exercises	25	1	CM09, CM10, CM11, KM07, KM08, SM08, SM09, SM10
Lab practices	35	1.4	CM09, CM10, CM11, KM07, KM08, SM08, SM09, SM10
Master class	30	1.2	CM09, CM10, CM11, KM07, KM08, SM08, SM09, SM10

Note: The course content will be sensitive to issues related to gender perspective and the use of inclusive language.

A detailed schedule outlining the content of each session will be presented on the first day

of the course and will be available on the course's Virtual Campus, where students will

find the various teaching materials deemed appropriate by the instructors and all teaching materials and necessary information for effective course monitoring.

Should the teaching modality change for reasons of force majeure according to the

competent authorities, the teaching staff will inform students of any modifications to the

course schedule and teaching methodologies.

Annotation: within the schedule set by the centre or degree programme, 15 minutes of one class will be reserved for students to evaluate their lecturers and their courses or modules through questionnaires.

Assessment

Continuous assessment activities

Title	Weight	Hours	ECTS	Learning outcomes
-------	--------	-------	------	-------------------

Teoretical exams	50%	10	0.4	CM09, CM10, CM11, KM07, KM08, SM08, SM09, SM10
Report deliveries	20%	20	0.8	CM09, CM10, CM11, KM07, KM08, SM08, SM09, SM10
Lab practices	20%	20	0.8	CM09, CM10, CM11, KM07, KM08, SM08, SM09, SM10
Attendance	10%	10	0.4	CM09, CM10, CM11, KM07, KM08, SM08, SM09, SM10

This course/module does not provide for a single-assessment system.

Students will be entitled to reassessment in the course if they have been evaluated on a set of activities accounting for at least two-thirds of the total course grade.

This course/module does not provide for a single-assessment system.

In this course, the use of Artificial Intelligence (AI) technologies is not permitted at any stage. Any assignment containing content generated by AI will be considered a breach of academic integrity and may result in a partial or total penalty to the assignment grade, or more serious sanctions in severe cases.

Any student suspected of submitting assignments that have been generated by AI, written by others or copied; include unattributed AI-generated content, or fall outside the permitted scope, may be asked to provide the preliminary work or other materials that can demonstrate it is original work and the result of their own authorship. They may also be asked to separately explain or justify their work. Teachers may also use AI detection systems or carry out any verification tasks they deem appropriate. If, after review, the instructor detects irregularities, the assignment may be graded zero, and the student may be subject to further disciplinary action.

Bibliography

<https://pythoninstitute.org/>

<https://www.python.org/>

Software

Visual Studio Code

Course groups and languages

The information provided is provisional until November 30. After this

date, you will be able to consult the language of each group through this [link](#). To access the information, you will need to enter the course CODE

Type of teaching	Group	Language	Semester	Shift
(TE) Theory	6	Spanish	second semester	afternoon
(PAUL) Classroom practices	61	Spanish	second semester	afternoon
(PLAB) Practical laboratories	61	Spanish	second semester	afternoon
(PLAB) Practical laboratories	62	Spanish	second semester	afternoon