

# **Full Curriculum for Bachelor's Degree in Computer systems**

## **1st year (Computer science)**

Semester	title of the unit	title of the subject
1st	Fundamental	Analysis 1
		Algebra 1
		Algorithms and Data Structures 1
		Machine Structure 1
	Methodology	Scientific Terminology and Written Expression
		Foreign Language 1
	Discovery	Physics 1
2nd	Fundamental	Analysis 2
		Algebra 2
		Algorithms and Data Structures 2
		Machine Structure 2
	Methodology	Introduction to Probability and Descriptive Statistics
		Information and Communication Technology
		Programming Tools for Mathematics and Communication
	transversal	Physics 2 (General Electricity)

## **2nd year (Computer science)**

Semester	title of the unit	title of the subject
3rd	Fundamental	Computer Architecture
		Algorithms and Data Structures 3
		Information Systems
		Graph Theory
	Methodology	Numerical Methods
		Mathematical Logic
	transversal	Foreign Language 2
4th	Fundamental	Language Theory
		Operating Systems 1
		Databases
		Networks
	Methodology	Object-Oriented Programming
		Web Application Development
	transversal	Foreign Language 3

## **3rd year (Computer systems)**

Semester	title of the unit	title of the subject
5th	Fundamental	Operating Systems 2
		Compilation
		Software Engineering
		Human-Computer Interface
	Methodology	Linear Programming
		Probability and Statistics
	transversal	Digital Economy and Strategic Monitoring
6th	Fundamental	Mobile Applications
		Computer Security
		Artificial Intelligence
		Semi-structured Data
	Methodology	Project
		Scientific Writing
	transversal	Creating and Developing a Startup