

Computer Science and Engineering Educational Offer @UNIBO

Ugo Dal Lago

Department of Computer Science and Engineering

Computer Science Degrees

- One Bachelor (180 ECTS) and one Master (120 ECTS) Degree.
- More than 70% of the courses are in Computer Science.
- Examples of Bachelor CS courses: Computer Architectures (6 ECTS), Algorithms and Data Structures (12 ECTS),
 Programming (12 ECTS), Programming Languages (6 ECTS), Computer Networks (12 ECTS), Operating Systems (12 ECTS),
 Databases (9 ECTS).
- Examples of Master CS courses: Artificial Intelligence (6 ECTS), Usability & User Experience Design (6 ECTS), Cryptography (6 ECTS), Internet of Things (6 ECTS).
- Bachelor courses are all in Italian. Master courses can be either in Italian or in English.
- Lectures are given in classes located around Porta San Donato.



Computer Engineering Degrees

- One Bachelor (180 ECTS) and one Master (120 ECTS) Degree.
- More than 50% of the courses are in Computer Science and Engineering.
- Examples of Bachelor CS/CE courses: Computer Architectures (6 ECTS), Information Systems (9 ECTS), Operating Systems (9 ECTS), Web Technologies (9 ECTS).
- Examples of Master CS/CE courses: Artificial Intelligence (8 ECTS), Software Engineering (8 ECTS), Real-Time Systems (8 ECTS).
- Bachelor courses are all in Italian. Master courses can be either in Italian or in English.
- Lectures are given in classes located around Viale Risorgimento.



Bachelor Degree on Information Sciences and Management

- Bachelor Degree (180 ECTS).
- More than 50% of the courses are in Computer Science.
- At least 30% of the courses are in Law and Management.
- Examples of Bachelor CS courses: *Network Programming* (9 ECTS), *Operating Systems* (9 ECTS), *Software Engineering* (6 ECTS), *Databases* (9 ECTS).
- All courses are given in Italian.
- Lectures are given in classes located around Porta San Donato.



Artificial Intelligence Master Degree

- Master Degree (120 ECTS).
- All courses are in Computer Science and Engineering.
- Examples of courses: Cognition and Neuroscience (6 ECTS), Image Processing and Computer Vision (6 ECTS), Deep Learning (6 ECTS), Knowledge Engineering (6 ECTS).
- All courses are given in English.
- Lectures are given in classes located around Viale Risorgimento.



CS Courses in Other Degrees

- **Genomics:** Python Programming (6 ECTS), Algorithms and Data Structures (6 ECTS), ...
- Bioinformatics: Python Programming (10 ECTS), Algorithms and Data Structures (10 ECTS), ...
- Mathematics: Python Programming (8 ECTS).

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