



Engineering Faculty

## Second-Cycle Degree Course in Computer Engineering

### The Degree Course

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The Second-cycle degree Course in Computer Engineering is aimed at training a high-profile professional possessing excellent skills in information engineering, expert in the field of engineering systems, planning, development, operation and maintenance of complex applications and computer systems, computer networks, data and information processing and management systems. In order to achieve these objectives and to privilege an interdisciplinary approach, the training path develops more-in-depth studies on mathematics and electronics, a wide theoretical-scientific knowledge of computer engineering and skills in the field of automatics. The study program includes two paths: the former one is called "Programming and Security" whereas the latter one is on "Big Data".

The first one is aimed at consolidating the skills acquired by the students with the three-year degree course specifically focusing, partly, on the development and design of complex software packages and, partly, on aspects related to hardware taking into account system programming and micro-controllers used in all sectors of automation and robotics.

The "Big Data" path, instead, is aimed at supplying deep knowledge on the creation and management of big databases designed for massive analytical surveys, an issue which, at present, is of great interest for big companies.

The study program is based on innovative contents, illustrated by the best scientists of the field, in videolessons and multimedia educational materials. Along their training path, the students of the Degree Course in Computer Engineering are constantly supported by tutors, researchers and area professors in continuous and stimulating confrontation based on interactivity.

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# Study Program

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### Path: **Programming and Security**

#### I YEAR

- Numerical methods
- Computer and Information Technology Law
- Information Management Systems
- Computer Systems Architecture
- Software Design
- System Programming
- Networks services and security

#### II YEAR

- Cloud computing
- Theoretical computer science
- Basics of industrial robotics
- Artificial intelligence
- Exams at student's s choice
- Final exam
- Training period

### Path: **Big Data**

#### I YEAR

- Information management systems
- Computer systems architecture
- Software design
- Network services and security
- Introduction to Big Data
- Digital Innovation
- Legal systems for big data

#### II YEAR

- System programming
- Big data applied to bio-informatics
- Cloud methods and tools for Big Data
- Big Data analytics and visualization
- Exams at the student's choice
- Final exam
- Training period

## How to enrol

Enrolment can only be made on the Internet in the area devoted to the Administrative Secretariat of the portal [www.uninettunouniversity.net](http://www.uninettunouniversity.net).

Payments can be made online by credit card or through bank transfer or postal service.



Videolesson of Prof. Stefano Quintarelli



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### For information and training support

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