COMPUTER SCIENCE & NETWORKING

UNIVERSITY OF PISA

HISTORY

SINCE 2009

SINCE 2009

Designed from mid '00s

Fixed admission numbers (numero programmato)

Entirely given in English

Competence cross-fertilization

- Telecom engineering
- Computer Science

Initially:

- Dept. Computer Science (Prof. Vanneschi)
- Dept. Engineering (Prof. Giordano)
- Sant'Anna TECIP (Prof. Prati & Castoldi)

- Double degree (inter university degree)
- Up to 2018-2019

In 2018

- Sant'Anna left from both Computer Science and networking & Embedded computing master degrees

INTERUNIVERSITY MASTER PROGRAMME IN COMPUTER SCIENCE & NETWORKING

DEPARTMENT OF COMPUTER SCIENCE

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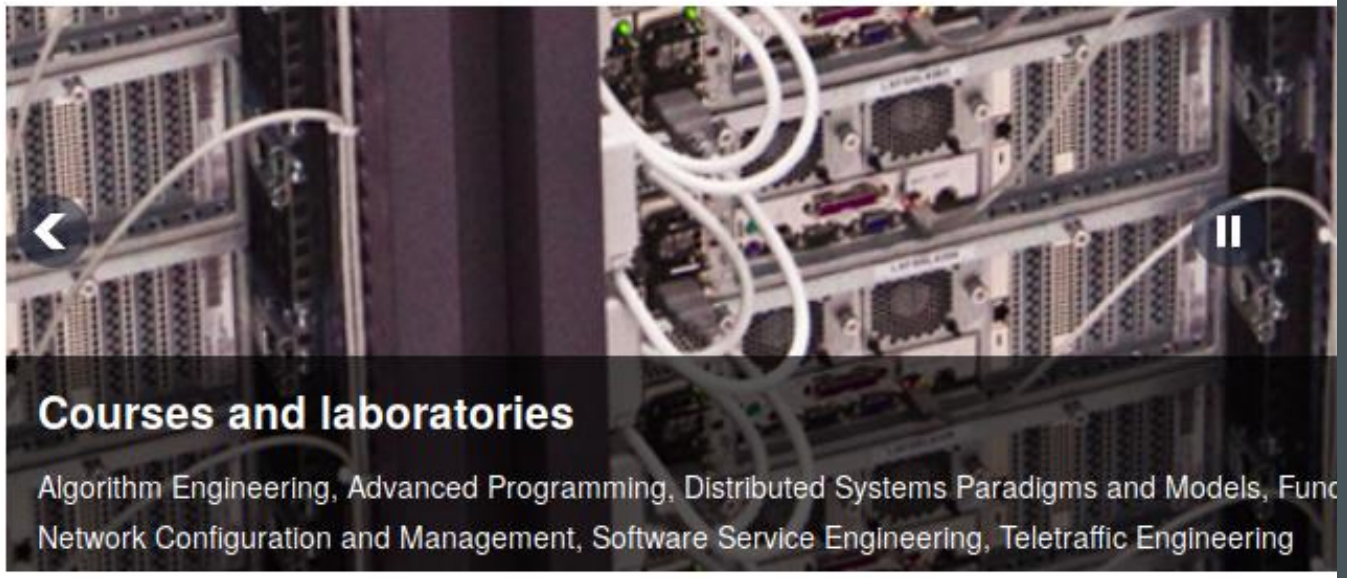
Home ▸ Education ▸ Master programme in Computer Science & Networking



Computer Science and Networking

- » RECRUITMENT
- » Support for students
- » Lecturers
- » Courses
- » Timetable
- » Graduation
- » Tutoring service

The 2-year Master Programme in Computer Science and N
been designed to meet the growing demand for an emerg
expertise in both a) computer and information science a
networking science and technologies.
This expertise is needed in the design and implementati
distributed infrastructures and service-based distributed a
e-business, research, social and citizen services, publi
2019-2020 the Master Programme in Computer Science a
University of Pisa.

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FROM A.Y. 2018-2019

Master run entirely by University of Pisa

- Dept. Computer Science (from ex Science Faculty)
- Dept. Of Information Engineering (from ex Engineering Faculty)

Focus moved from optical to wireless

Free access

CONTENTS

- Telecommunication engineering
  - Foundations & principles of communications
  - Wireless basics and advanced concepts
  - Advanced telecommunications methodologies and tools
- Computer Science
  - Parallel & distributed computer architectures
  - Advanced programming & software engineering
  - Parallel, distributed and service advanced programming
  - Security

STUDY PLAN

First year
HPC (9 credits)
Advanced programming (9)
Digital communications (12)
Wireless networks (9)
Teletraffic engineering (9)
Par&Distr systems: paradigms & models (9)

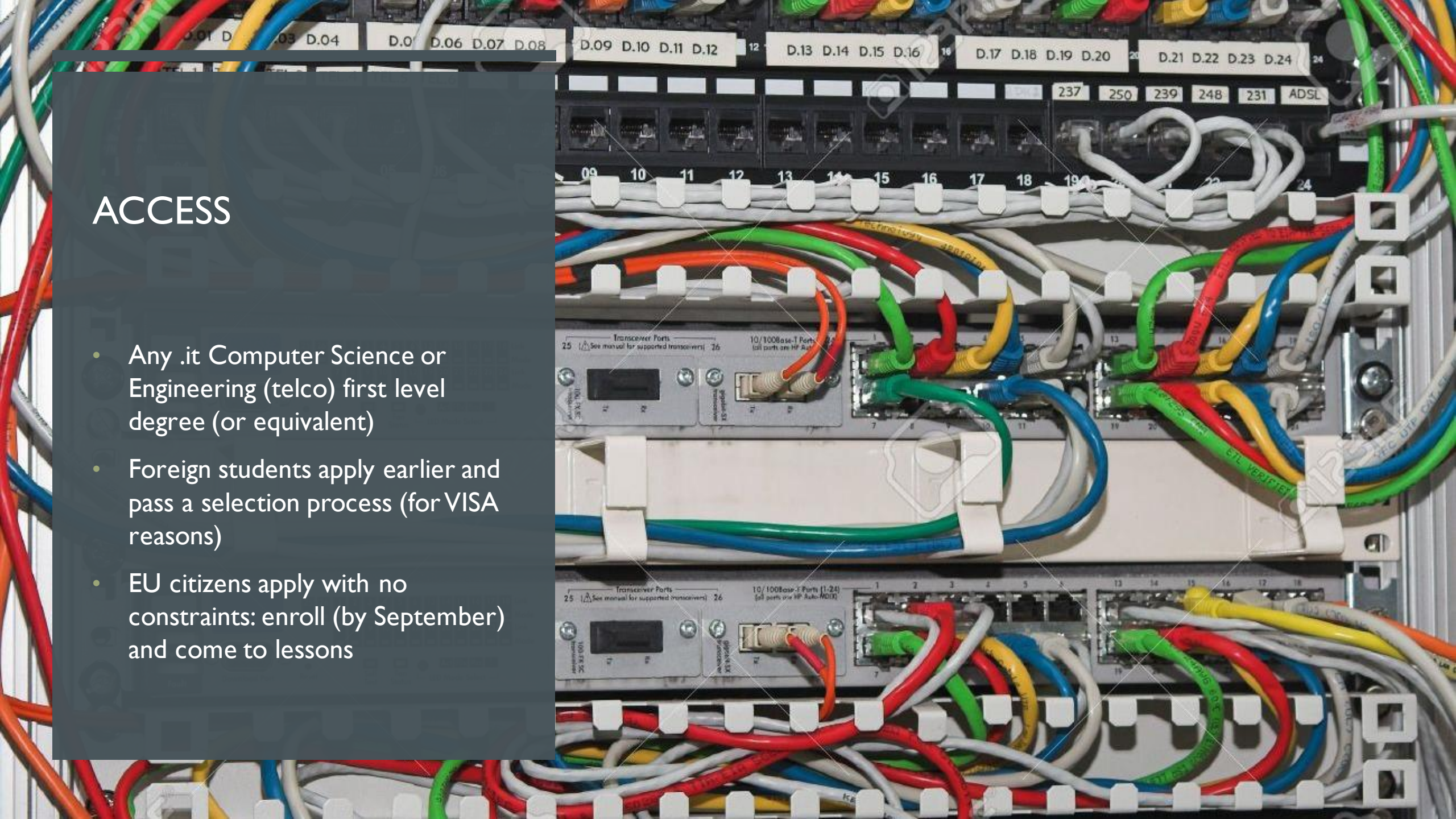
Second year
Advance software engineering (9)
Algorithm engineering (9)
Thesis (15)
"Affine" exam choice (9) (mostly engineering)
"Characterizing" exam choice (12) (mostly computer science)
Free choice exam (9)

TEACHING

- Entirely delivered in English
- Significant percentage of "foreign" students from Asia, Africa and South America
- Relatively high #prof/#student ratio
- Improved learning experience
- Thesis
  - 15 to 18 credits
  - Classic or @external industry or research institution (with internal supervisor)

ACCESS

- Any .it Computer Science or Engineering (telco) first level degree (or equivalent)
- Foreign students apply earlier and pass a selection process (for VISA reasons)
- EU citizens apply with no constraints: enroll (by September) and come to lessons



STATISTICS

- Classes of 10 to 30 students
- Large part of students graduates in 2 + 1 year
- About 80% of the students work within 2 months after graduation
- Another consistent part attends to PhD
  - In Italy (Computer Science in Pisa) or abroad (Imperial college, Barcelona/Sweeden)
- Good outcome in terms of final scores
- Negligible abandon rate
  - A few students change *before* starting to attend lessons
  - The rest goes up to the end
  - With a percentage of students working after regular duration and therefore graduating quite late

THE FIRST AND UNIQUE SECOND LEVEL DEGREE WITH THESE COMPETENCES IN ITALY

VERY PROUD TO CONTRIBUTE