



# **Master in Gestione del Software Open Source (Management of open source software)**

**Dipartimento di Informatica  
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## Level of the curriculum:

- **prerequisites:** *a 3-year degree in any discipline*
- **duration:** *1 year (60 CFU)*
- **target students:** *IT services managers in PA or private companies  
system administrators, project managers*
- **target outcome:** *same professionals able to understand and evaluate  
FLOSS solutions in PA or private companies*

## Main goals of the curriculum:

**Give a broad overview of the business model based on FLOSS and of the main technical problems in developing FLOSS software, managing FLOSS projects and migrating to FLOSS platforms.**

**Particular interest is given to innovation of (Italian) Public Administration with seminars and case studies presented.**



## **Nature of courses;**

- **Programming and Lab (6 CFU – 54 h) 1.3.1 Traditional**  
imperative programming and lab (java)
- **Databases (2 CFU – 14 h) 1.3.1 Traditional**  
introduction to databases- mysql
- **Computer architectures (1 CFU – 7 h) 1.3.1 Traditional**  
basics of computer architectures
- **Operating systems and networking (2 CFU – 14 h) 1.3.1 Traditional**  
basics operating systems concepts
- **Linux (2 CFU – 14 h) 1.3.2 FLOSS Technical**  
structure, administration, basic module development (with labs)
- **FLOSS Networking (2 CFU – 14 h) 1.3.2 FLOSS Technical**  
administration, tools
- **Development of FLOSS projects (2 CFU – 14 h) 1.3.2 FLOSS Technical**  
cooperative tools: versioning, wiki etc



## **Nature of courses (contd.)**

- **Political economics (5 CFU – 35 h) 1.3.1 Traditional**  
Micro- macro economics
- **European FLOSS Scenario (1 CFU – 7 h) 1.3.3 Other FLOSS**  
Laws, directives, strategies, founding
- **FLOSS Economics (6 CFU – 48 h) 1.3.1 Traditional 1.3.3 Other FLOSS**  
basics economics and marketing, business plans, migration projects
- **FLOSS Laws (5 CFU – 35 h) 1.3.1 Traditional 1.3.3 Other FLOSS**  
basics laws, FLOSS related problems, copyright, licenses, etc.
- **Seminars (6 CFU – 60 h) 1.3.2 FLOSS Technical 1.3.3 Other FLOSS**  
case studies, meetings with professionals and academics
- **Stage (18 CFU – 14 h) 1.3.2 FLOSS Technical 1.3.3 Other FLOSS**  
a FLOSS project in PMI or PA



**Summarizing: Our master is mainly a cultural one targeted for people with different background, possibly already working in PA and now starting to get interested in FLOSS**

### Strengths

- able to talk to people already employed in PA or companies with heterogenous background that start to get in touch with FLOSS and need to understand and promote it
  - *quite a common setting in Italian PA or in Italian companies*
- able to make people with different background working together in complex stage projects
- able to make long lasting connections among students in different expertise areas

### Weaknesses

- **Make courses interesting for students with very different background is hard work not always successful**
  - \* Proposing lab experiences/projects with different degrees of technical challenges seemed to work well for technical courses (eg. Operating systems & Linux)

### Students (40 students in 3 editions)

Found it very brainstorming

- good to have a broad idea of many topics, some they could immediately apply in their work
- good to make contacts and nets useful to exchange information
  - unfortunately many topics are not treated in depth due to lack of time and/or different background/ interests of students