<table>
<thead>
<tr>
<th>DEPARTMENT</th>
<th>COURSE</th>
<th>DESCRIPTION</th>
<th>PREREQS</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPUTER SCIENCE</td>
<td>CPSC 432</td>
<td>INTERMEDIATE COMPILER DESIGN, WITH A FOCUS ON DEPENDENCY RESOLUTION.</td>
<td>CPSC 432</td>
</tr>
</tbody>
</table>
Programme

11:15 Welcome
11:30 The scientific role of CS
12:00 Bureaucracy stuff / COSP / ESN / CUS
12:35 The master in CS
13:05 From student to student
Benvenuti in Statale!

A short tour of the University and a view on computer science (master degree version)
Benvenuti in Statale!

http://orientamento.di.unimi.it/index.php/iniziative/bday

Don't PANIC!
What do you do at a University?

- A community of learners who study together

Università degli Studi di Milano
University of Milan

Facoltà di Scienze e Tecnologie
Division of Science and Technology

Dipartimento di Informatica
Computer Science Department

TEACHING

RESEARCH

3rd MISSION
University funding

- Italian Universities have been for long largely under-funded (~1.4% of GDP invested in R&D vs. 2-3% in EU/US/JP/…)

- Taxes paid by students only cover a small part of actual costs (<20% total funding, as imposed by law)

- University is thus paid for by people not attending it...

- Thus you have a big responsibility: complete your studies and make the most of what you learn!
Teaching organization

- Academic year organized in semesters, several courses per semester (frontal lectures / labs)
- Attending is not mandatory, although strongly advised
- 1 CFU = 25 (student) work hours:
  - 8 classroom + 17 individual study (frontal lessons)
  - 12 lab + 13 individual study (labs)
- Thus attending lectures is not sufficient
- Studying is a full-time activity
More freedom (check on «Manifesto degli Studi»)
- a heavily customizable curriculum
- specific specializations

As soon as possible, plan your thesis’ work
- more demanding, thus more challenging

Studying abroad is extremely meaningful

Possible collaborations as TA
- «CS 101» for other bachelor degrees
- course for BSc in computer science
Exams

• Each course requires one or more exams
  – written (sometimes substituted by partials)
  – oral
  – project
• Exams are planned at specific dates (appelli): Jan Feb Jun Jul Sep
• Six possibilities (for each course) per year: don’t just try them! Moreover, signing up without actually showing up might pose logistic problems
Some pointers

- Teaching office / Ufficio per la didattica
  - via Celoria 18 (ground floor)

- Timetable: [http://easystaff.divsi.unimi.it/PortaleStudenti/](http://easystaff.divsi.unimi.it/PortaleStudenti/)

- Web
  - [http://www.di.unimi.it](http://www.di.unimi.it) (CS department / Dipartimento)

- Student’s guide
  - [https://www.unimi.it/sites/default/files/2020-09/Welcome_ENG_Web_2020_2021_0.pdf](https://www.unimi.it/sites/default/files/2020-09/Welcome_ENG_Web_2020_2021_0.pdf)
Important places

• Via Celoria 18: CS department + classrooms
Important places

- Settore didattico and via Golgi: classrooms
Important places

- Via Venezian 15 (didatteca): classrooms
Student/teacher communication

- Check beforehand if it is more appropriate to ask to someone else (e.g., teaching office) and if the info is already published somewhere
- Vis à vis (during classes or at office hours)
- Using e-mail, via your address name.surname@studenti.unimi.it
  - be clear, concise, and specify a subject
  - write clearly your name, surname and course
  - send only one message
Some tips...

- Learn how to manage time
- Find your way to approach learning
- Learn how to work in groups and individually, attend labs, discuss with other students and with TAs
- Get informed about teaching opportunities (elective courses, seminars, additional lectures) and learn how to develop practical skills autonomously
A look at Computing
Concept map

https://tinyurl.com/bday-en-unimi-2021
Concept map

HARDWARE
how digital computers are done
Concept map

HARDWARE
how digital computers are done

SOFTWARE
- system
- application
Concept map

HARDWARE
how digital computers are done

SOFTWARE
- system
- application

NETWORK and PROTOCOLS
Concept map

HARDWARE
how digital computers are done

SOFTWARE
- system
- application

NETWORK and PROTOCOLS

ALGORITHM
Procedure made up by a finite sequence of elementary steps leading to the solution of a problem
**Concept map**

**HARDWARE**
- how digital computers are done

**SOFTWARE**
- system
- application

**NETWORK and PROTOCOLS**

**ALGORITHM**
- Procedure made up by a finite sequence of elementary steps leading to the solution of a problem

**PROGRAM**
- Description of an algorithm in a language suitable to be executed by a machine
Concept map

HARDWARE
how digital computers are done

SOFTWARE
- system
- application

NETWORK and PROTOCOLS

ALGORITHM
Procedure made up by a finite sequence of elementary steps leading to the solution of a problem

PROGRAM
Description of an algorithm in a language suitable to be executed by a machine

PROCESS
Instance of an executed program
Concept map

HARDWARE
- how digital computers are done

SOFTWARE
- system
- application

NETWORK and PROTOCOLS

ALGORITHM
- Procedure made up by a finite sequence of elementary steps leading to the solution of a problem

PROGRAM
- Description of an algorithm in a language suitable to be executed by a machine

PROCESS
- Instance of an executed program

MATHEMATICAL TOOLS
- describing and modeling objects
- analyzing, describing, forecasting the behaviour of a system
HARDWARE
how digital computers are done

SOFTWARE
- system
- application

NETWORK and PROTOCOLS

ALGORITHM
Procedure made up by a finite sequence of elementary steps leading to the solution of a problem

PROGRAM
Description of an algorithm in a language suitable to be executed by a machine

PROCESS
Instance of an executed program

MATHEMATICAL TOOLS
- describing and modeling objects
- analyzing, describing, forecasting the behaviour of a system

SIGNALS

DATA

INFORMATION

September 28th, 2020