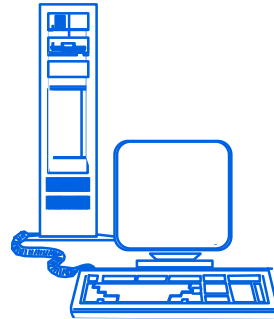


Course presentation

Electronic Computers M



- Subject of the course: modern computers architectures.
- This *advanced* course assumes a basic knowledge of *logical networks* and *computer systems*. However in order to «level» the knowledge of the attendees the course starts at 8.30 sharp and the first lectures will be devoted to «fill the potential gaps»: they are in any case useful *for all students* !
- Course slides, recorded lectures and detailed exam rules are provided on the web site <http://gneri.deis.unibo.it>. Since the course can slightly change during the unfolding of the course it is suggested to download only the files of the already held lectures. Course files at address

<http://www3.deis.unibo.it/Staff/FullProf/GNeri/ftproot/Computer%20Architectures%20M/Course/2017-2018>

are both in .PDF and .PPSM form: for watching the .PPSM files the program PowerPointViewer.exe can be installed (with Windows OS) which is in the same directory of the .PDF and .PPSM files.

- Students reception: normally Monday at 11.00 (but check always in Almaesami). In order to avoid “no-show” it is **mandatory** the registration for the reception in AlmaEsami (which is possible up to two days before the reception date). Cancellations are possible up to one day before the reception date. Students **MUST** always control dates and times of receptions and exams in AlmaEsami .
- My e-mail address is giovanni.neri@unibo.it

Books (not necessary...)

Hennessy Patterson: "Computer architecture: a quantitative approach" - Morgan Kaufmann pub. Inc., - *Fifth Edition* - 2012 –

Jon Stokes "Inside the Machine" – Ars Technica Library – 2007

- **Book on the design of P6 architecture**

Robert P. Coldwell "The Pentium Chronicle" IEEE Computer Society Wiley Interscience – 2006 – ISBN-13 978-0-471-73617-2

- **Bus QPI**

Robert A. Maddox, Gurbir Sing e Robert J. Safranek "Weaving High Performance Multiprocessor Fabric" Intel Press – 2009 – ISBN 978-1-934953-18-8

- The course program for the exam is **ALWAYS** that of the last held course
- Exams consist of a written test (two hours) and if passed an oral exam the same day
- For the exams students must register in Alma Esami up to one week before the date of the exam. *No late registration is under any circumstance accepted*, Students must carry a valid identification document (passport or ID card)
- Multiple registrations in different dates are **strictly forbidden and strongly sanctioned**.
- Exams registrations with no show without previous notifications will be sanctioned.
- Any (either positive or negative) result of the exam will be in any case recorded. In case of a failed recorded exam a student cannot register again for the same exam within the next 20 days.

- **A two points bonus is awarded to students who pass the exam at the first attempt within 365 days from the end of the lectures. «Lode» is not part of the bonus**
- **Late students (arriving after the stated time of the exams) will be not accepted.**
- **Detailed rules on the web site <http://gneri.deis.unibo.it>**

- A students list on the web site <https://www.dsa.unibo.it/> has been created for communications

List name = Computer-Architectures
Password = Students

- Students **MUST read** every day the e-mails which are my only communication way for contacting them. Changes of dates or times of the exams are communicated through e-mail and therefore possible misunderstandings are only responsibility of the students.

Behaviour rules

Lectures will start at 8.30 on Monday, Tuesday and Friday *sharp*. There will be a 15 minutes interval after one and a half hours.

After the lecture's start **no students are admitted** in the classroom. Students can enter the classroom during the interval

No food or drink can be brought into the classrom but for consumption during the interval (outside the classroom)

Absolute silence is required in order to respect the teacher and the colleagues. Questions to the teacher are always allowed, obviously

Basic Course

The slides of the basic Computer Architecture course (bachelor degree - italian and english version) can be found at the address

<http://didattica.arces.unibo.it/mod/resource/view.php?id=377>