

Industrial applications

Computer Engineering and PC Computers, Object oriented modelisation
UML

IDENTIFICATION

CODE : GEA-4-S1-EC-IF2
ECTS : 1.0

HOURS

Lectures : 11.0 h
Seminars : 11.0 h
Laboratory : 4.0 h
Project : 0.0 h
Teacher-student
contact : 26.0 h
Personal work : 15.0 h
Total : 41.0 h

ASSESSMENT METHOD

1 x 3h

TEACHING AIDS

TEACHING LANGUAGE

French

CONTACT

M. GRENIER Thomas
thomas.grenier@insa-lyon.fr

AIMS

Machine language programing
Programming the Intel IA32 microprocessors architecture and environment in PC computers
Interrupt programming
Object oriented design and programming
Introduction to UML and C++

BIBLIOGRAPHY

- [1] Pentium III Datasheet, Order Number: 244452-002, May 1999
- [2] Intel Architecture Software Developers Manual, 3 volumes Basic Architecture, Instruction set reference, System programming, PDF files
- [3] Le nouveau guide du PC, Jack Steiner, Ed. Osman Eyrolles Multimédia
- [4] Troubleshooting, maintaining et repairing PCs, S.J. Bigelow, Mc Graw Hill,
- [5] PCI Hardware and software : Architecture and design, nth edition, Solari, Ed / Willse, George, Annabooks
- [6] PCI System architecture, nth edition, Anderson, Don / Shanley, Tom / et al., Addison Wesley
- [7] Computer Architecture and Design, A.J. Van de Goor, Addison Wesley
- [8] Introduction to UML 2.0, Miles & Hamilton, O. Reilly, 2006
- [9] C++ language 3rd edition, Bjarne Stroustrup, CampusPress, 1999

PRE-REQUISITE

31-GE-IF2 or equivalent
32-GE-IF2 or equivalent

INSA LYON

Campus LyonTech La Doua

20, avenue Albert Einstein - 69621 Villeurbanne cedex - France
Phone +33 [0]4 72 43 83 83 - Fax +33 [0]4 72 43 85 00

www.insa-lyon.fr