COURSE DETAIL

COMPUTER ORGANIZATION AND ARCHITECTURE

Country
Mexico

Host Institution
National Autonomous University of Mexico

Program(s)
National Autonomous University of Mexico

UCEAP Course Level
Upper Division

UCEAP Subject Area(s)
Computer Science

UCEAP Course Number
105

UCEAP Course Suffix

UCEAP Official Title
COMPUTER ORGANIZATION AND ARCHITECTURE

UCEAP Transcript Title
COMPUTER ORG&ARCH

UCEAP Quarter Units
6.50

UCEAP Semester Units
4.30

Course Description
This course provides an overview of the structure and design of computer systems, emphasizing criteria that inform design decisions with favorable cost-benefit relationships. Topics include: quantitative principles of architecture design; representation of data in digital computers; Boolean algebra; combinational circuits and sequences; design of instruction set architectures; control unit; pipelining; hardware-software relationship; memory hierarchy; input/output and buses; multiprocessor systems; cutting-edge architectures.

Language(s) of Instruction
Spanish

Host Institution Course Number
1428

Host Institution Course Title
COMPUTER ORGANIZATION AND ARCHITECTURE

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department
Ciencias de la Computación, Facultad de Ciencias

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