

COURSE DETAIL

FILE STRUCTURES AND DATABASE MANAGEMENT

Country

Spain

Host Institution

Carlos III University of Madrid

Program(s)

Carlos III University of Madrid

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Computer Science

UCEAP Course Number

138

UCEAP Course Suffix

E

UCEAP Official Title

FILE STRUCTURES AND DATABASE MANAGEMENT

UCEAP Transcript Title

FILE&DATABASE MGMT

UCEAP Quarter Units

5.00

UCEAP Semester Units

3.30

Course Description

This course provides a study on file structures and database management. It examines logical database design, from the relational model to the basic physical level in order to understand and recognize the need for secondary storage media in various use cases. The course also covers the following topics: static and dynamic properties of the relational model; base structures; auxiliary structures; database management systems; storage paradigms. *Previous course work in programming, algorithms, data structures, and computer structure is required. Texts: Cuadra D., Castro E., Iglesias A., Martínez P., Calle J., de Pablo C., Al'Jumaily H., Moreno L., García S., Martínez J.L., Rivero J., Segura I.. Desarrollo de Bases de Datos: casos prácticos desde el análisis a la implementación. 2ª ed.. Ra-Ma. 2013 Elmasri, R. y Navathe, S.. Fundamentals of Database Systems (5ª ed).. The Benjamin/Cummings Publishing Company. 2006 Folk, M. J., Zoellick, B., y Riccardi, G.. File Structures.. Addison Wesley . 1998 Oracle® . SQL*Plus. User's Guide and Reference.

<http://docs.oracle.com/database/121/SQPUG/E18404-12.pdf>. 2013 Oracle® Database. SQL Language Reference.

<http://docs.oracle.com/database/121/SQLRF/E41329-17.pdf>. 2015 Silberschatz, A., Korth, H. F. & Sudarshan, S.. Database System Concepts, 6th ed (also 3rd to 5th). Mc-Graw Hill. 2011 NOTE: Course is the same as CP S 138, but taught in English.

Language(s) of Instruction

English

Host Institution Course Number

13881

Host Institution Course Title

FICHEROS Y BASES DE DATOS

Host Institution Course Details

Host Institution Campus

Escuela Politécnica Superior. Leganés

Host Institution Faculty

Host Institution Degree

Host Institution Department

Informática

Course Last Reviewed

[Print](#)