

COURSE DETAIL

DATABASE SYSTEMS

Country

Germany

Host Institution

Free University of Berlin

Program(s)

Technical University Berlin,Free University Berlin

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Computer Science

UCEAP Course Number

136

UCEAP Course Suffix**UCEAP Official Title**

DATABASE SYSTEMS

UCEAP Transcript Title

DATABASE SYSTEMS

UCEAP Quarter Units

4.50

UCEAP Semester Units

3.00

Course Description

This course discusses topics including database design with ERM/ERDD; theoretical foundations of relational database systems: relational algebra, functional dependencies, and normal forms; relational database development: SQL data definitions, foreign keys and other integrity constraints, and SQL as applicable language: essential language elements, and embedding in programming language; application programming, and object-relational mapping; security and protection concepts; transaction subject, transactional guaranties, synchronization of multi user operations, and fault tolerance features; and application and new developments: data warehousing, data mining, and OLAP. The topics are deepened in an implementation project for student groups.

Language(s) of Instruction

English

Host Institution Course Number

19301501

Host Institution Course Title

DATABASE SYSTEMS

Host Institution Campus

Host Institution Faculty

MATHEMATIK UND INFORMATIK

Host Institution Degree

Host Institution Department

Informatik

[Print](#)