

Field: IT
Module title: Databases (MI.1)
Preliminary conditions: none
Education aims: Present basic features and definitions of database systems, discuss a structure query language (SQL), show some methods of a relational database schema design.
Education outcomes: Student has a knowledge concerning structure design and maintenance of a relational database. Student is able to design a relational database schema in 3 normal form or farther. Student can use SQL language to read and modify a database content.
Module type and contents: Introduction to database system theory. Database functions. Data models and DBMS. SQL language -the DML and DDL parts. Creation the database system, a normalization process of relations. Entity-relational diagrams. Managing the database system. Transaction management and data security . A survey of a DBMS tools.
Educational methods: Multimedia presentations, computer tools activities.
Assessment methods: Project, paper work
ECTS credits: 6
Students workload (hs.): 150
Form Number of hours: 30
Author of a module: Aleksander Klosow, PhD
Module language: english