

SYLLABUS

SUBJECT DATA BASES II

TEACHER DARIUSZ BOBER, PHD

COURSE DESCRIPTION

Procedural Language Database PL / SQL: defining the data, control instructions, support cursors, exception handling. Functions and procedures stored in the database. Sequences. Active databases - data processing by triggers. Theoretical basis of graphical user interface design, items properties. Discussion of the application functionality. Discussion of two-and three-tier application architecture, with examples of implementation using up to date programming languages (eg C #, Java, PHP). Data mining with relational database from selected office applications. XML in databases: generation, storage, search.

LEARNING OUTCOMES

Ability to create a dedicated business functions in a procedural language and its use in SQL queries. The ability to automate the processing of data based on triggers. Ability to create a real system allows to operate on the basis of data in client - server architecture (practical implementation).

GRADING POLICY

Practical test of procedural data processing using PL/SQL blocks, 3-5 tasks to solve. Creating graphical user interface with basic application functionality.

TIMETABLE

15 hours of lectures, 30 hours of laboratories. The polish language is the major one of regular classes, during the classes it is possibility to communicate with the teacher in English. The students of Erasmus Program could pass the subject in individual form of classes - they could prepare an original project, which will solves a sensitive issue in the selected areas. The progress on the project should be consulted regularly during the hours of consultation, which are presented at the teacher's home page: <http://www.univ.rzeszow.pl/ki/dbober1.html>

TEXTBOOK AND REQUIRED MATERIALS

Lawrence C. Linnemeyer, Bradley D. Brown – „Oracle HTML DB Handbook.” - Oracle Press 2007

Chris Ostrowski - Oracle Application Server Portal Handbook, Oracle Press 2007

Rick Greenwald, Robert Stackowiak, Jonathan Stern – “Oracle Essentials: Oracle Database 11g” - O'Reilly 2008

PREREQUISITES:

Databases I, Basics of procedural programming,