



COURSE TITLE:	Database Programming and Optimization
Institute/Division:	Department of Electrical Engineering Faculty of Electrical and Computer Engineering
Course code:	E-DBPO
Erasmus subject code:	0612 Database and network design and administration
Number of contact hours:	45
Course duration:	1 semester (Spring/Summer)
ECTS credits:	6
Course description:	<p>This course is about the implementation of database structures, programming in databases as well as optimization of database operations. The main environment used during the course is Oracle Database Server, the most popular and most advanced commercial database system.</p> <p>The course covers:</p> <ul style="list-style-type: none">• Database structures: tables, views, indexes, sequences• Using of SQL language in Oracle Database• Programming Language PL/SQL: blocks, procedures, functions, triggers, packages• SQL operations optimization: analysis, execution plans, statistics, optimizer
Course type:	Lectures (20h), Laboratory (20h), Project (5h)
Literature:	Jason Price – Oracle Database 12c SQL, McGraw Hill, 2013 Steven Feuerstein and Bill Pribyl – Oracle PL/SQL Programming, 2014 Michael McLaughlin – Oracle Database 12c PL/SQL Programming, 2014
Assessment method:	Project and laboratory exercises
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