

Study program: Business informatics and e-business			
Course name: Database projecting			
Professor: Tumbas M. Pere, PhD			
Subject status: compulsory course			
ECTS: 5			
Requirement: Database			
Aim of the course Students acquire knowledge on methods and techniques of projecting relational database. Thus they learn about basic principles, activities and tools which are used in database projecting. Through selected case studies students learn to, independently, perform mapping of complex (practical) examples into a functional project with the help of CASE technology and other automatized tools.			
Course outcomes Students are familiarized with motifs and basic principles of projecting database schemes and are capacitated to, conceptually, perform projecting of relational database. During practical course work, students acquire practical knowledge which facilitate their work in real-life conditions.			
Content of the course Motives and basic principles of database design. Conceptual design of a database. Implementation database design. Normalization. Spreading the primary key. Independence of a set of schema relations. Integrity of the domain, torques of the scheme of relations and type appearances. Designing interrelation constraints. Mechanisms for controlling the integrity of a relational database. Procedural mechanisms for controlling the integrity of the relational database.			
Literature <ul style="list-style-type: none"> • П. Могин, И. Луковић, М. Говедарица, (2004) „Принципи пројектовања база података“, II издање, Универзитет у Новом Саду, Факултет техничких наука, Нови Сад. 			
Total number of active teaching classes	Lectures: 30	Practical course work: 30	
Teaching methods			
Evaluation (maximum points 100)			
Pre-exam activities	Points	Final exam	Points
Active participation in lecture classes	5	Written exam	/
Active participation in practical course work	5	Oral exam	45
Colloquium 1	30	
Colloquium 2	/		
Term papers	15		