

Study programmes: Bachelor studies - Mathematics				
Course name: RM13 - Introduction to Relational Databases				
Lecturers: Gordana Pavlović-Lažetić and other lecturers of the Department of Informatics and Computer Science				
Status: Compulsory				
ECTS: 5				
Attendance prerequisites: M1.02, RM01, RM02				
Course aims: Introducing database concepts and techniques.				
Course outcome: After completion of the course, students have adopted introductory database concepts and data modeling techniques. They have acquired experience in using interactive SQL.				
Course content:				
<ul style="list-style-type: none"> - Database systems: motivation and development; components - Database management systems; functions; architecture; data independence - Data modeling: conceptual, logical, physical model; Entity-Relationship model - Relational model of data; relational algebra and relational calculus - Query languages; survey; SQL - Design of relational databases; functional and multivalued dependency; normal forms 				
Literature:				
1. G.Pavlović-Lažetić: Osnove relacionih baza podataka, Matematički fakultet, Beograd, 1999.				
2. Date, C.J: An Introduction to Database Systems, 7th Ed, Addison-Wesley, 1999.				
(a lecturer may recommend other literature sources if deemed appropriate)				
Number of hours: 4	Lectures: 2	Tutorials: 2	Laboratory: -	Research: -
Teaching and learning methods: Frontal / Lectures / Exercises				
Assessment (maximal 100 points)				
Course assignments	points	Final exam		points
Lectures	-	Written exam		-
Exercises / Tutorials	-	Oral exam		-
Colloquia	40	Written-oral exam		60
Essay / Project	-			