

Course Name : Databases							
Course Code	Course Type	Regular Semester	Lecture (hours/week)	Seminar (hours/week)	Lab. (hours/week)	Credits	ECTS
CMP 217	B	Fall	3.00	0.00	1.00	3.50	5.00
Lecturer		Klevis Topi, Msc					
Assistant							
Course language		Albanian					
Course level		Bachelor					
Description							
Objectives							
Core Concepts							
Course Outline							
Week	Topic						
1	Introduction to Database Systems, Database System Concepts						
2	Entity-Relationship Model						
3	Enhanced Entity Relationship Model						
4	Relational Data Model						
5	Relational Algebra I						
6	Relational Algebra II						
7	Normalizing a database						
8	Midterm						
9	Introduction to SQL						
10	DML data manipulation instructions						
11	More DML instructions, DDL table creation instructions						
12	Introduction to MySQL, database design in MySQL						
13	Tables in MYSQL						
14	Retrive data from tables using MySQL statements						
15	Database Programming						
16	Final Exam						

Prerequisites	The student must attend the course at a minimum rate of 75%.		
Literature	• Emasri, Navathe, “Fundamentals of Database Systems”, 2011 sixth edition, Addison Wesley. • Jay Greenspan and Brad Bulger, ‘MySQL/PHP Database application’, 2001, Published by M&T Books • Ch. FEHILY, SQL – Third Edition, 2008		
References	• Alba Como, Xheni Melo, Menaxhimi bazë të dhënash, 2018, EneaS, Tiranë.		
Course Outcome			
1	The students creates a simple database.		
2	The students does simple queries in the database.		
3	The student is familiar with the basic components of an RDBMS.		
4	The student manipulate the data of a database with SQL and MYSQL.		
5	The student is capable of administering a database.		
Course Evaluation			
In-term Studies		Quantity	Percentage
Midterms		1	10
Quizzes		0	0
Projects		1	20
Term Projects		0	0
Laboratory		0	0
Class Participation		1	10
Total in-term evaluation percent			40
Final exam percent			60
Total			100
ECTS Workload (Based on Student Workload)			
Activities	Quantity	Duration (hours)	Total (hours)
Course duration (Including the exam week: 16x Total hours of the course)	16	4	64
Study hours outside the classroom (Preparation, Practice, etc.)	14	4	56
Duties	1	0	0
Midterms	1	0	0
Final Exam	1	2	2
Other	0	0	0
Total Work Load			122
Total Work Load / 25 (hours)			4.88
ECTS			5.00