	Course	Regular	Lecture	Seminar	Lab.					
Course Code	Type	Semester	(hours/we ek)	(hours/we ek)	(hours/we ek)	Credits	ECTS			
CMP 217	В	Fall	3.00	0.00	1.00	3.50	5.00			
	Lecturer	Klevis Topi, Msc								
Assistant										
Course language		Albanian								
Course level		Bachelor								
Description This course provides the necessary theoretical and practical foundation relational database management systems. It also covers data analysis modeling using entity-relationship techniques, relational theory and no and the SQL language.						and				
	Objectives	Get ready to acquire some seriously marketable programming skills! You can't consider yourself a complete end to end developer until you can code in SQL. Today, data has become the hottest topic in technology and a company's biggest asset is their data. All databases require the language SQL to store and retrieve data. The great thing is, for this course, you do not need any prior experience in programming what so ever. SQL is a different animal and we're going to demystify the language from scratch and prepare you with plenty of progressively challenging assignments so that by the time you've completed the course, you can call your self an Oracle SQL Master! Oracle is the most popular relational database in the world!								
Co	ore Concepts	Basics of Tables SELECT and WHERE Clause WHERE, AND & OR with Operators BETWEEN, IN and NULL Single Table Queries Single Row Functions Grouping Functions GROUP BY and HAVING Clause Joins Inner and Outer Joins EXISTS & NO EXIST Operators Creating Your Own Tables Using ALTER Creating Tables with SELECT & UPDATE Data DELETE, TRUNCATE, and DROP Commands								
Course Outlin	ne									
Week	Торіс									
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 P	Database Programming							
16	Final Exam	Final Exam							
	Prerequisites	rate of 75%.							
	Literature	Ch. FEHILY, SQL – Third Edition, 2008 Jay Greenspan and Brad Bulger, 'MySQL/PHP Database application', 2001, Published by M&T Books Emasri, Navathe, "Fundamentals of Database Systems", 2011 sixth edition, Addison Wesley.							
	ash, 2018, EneaS	, Tiranë.							
Course Ou	tcome								
1	The student	The student manages to create a simple database							
2	The student	The student manages to make simple queries in the database							
3	The student	The student is introduced to the basic components of an RDBMS							
Course Eva	aluation								
		Quantity	Percentage						
Midterms		1	15						
Quizzes		2	20						
Projects		0	0						
Term Projects		0	0						
Laboratory		0	0						
Class Participation 1									
Total in-term evaluation percent									
Final exam percent									
Total									
ECTS Work	doad (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			0	0	0				
Midterms			1	2	2				
Final Exam			1	2	2				
Other			0	0	0				
Total Work Load									
Total Work Load / 25 (hours)									
ECTS									