

Course Title : Databases

Code	Course Type	Regular Semester	Lecture (hours/week)	Seminar (hours/week)	Lab (hours/week)	Credits	ECTS
CMP 217	A	-1	3	0	1	3.50	5
Lecturer and Office Hours			Klevis Topi, Msc				
Teaching Assistant and Office Hours							
Language							
Course Level							
Description							
Objectives							

Course Outline

Week	Topics
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	Retrieve data from tables using MySQL statements
15	Database Programming
16	Final Exam

Prerequisites**Textbook**

- 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.

Other References

- Alba Como, Xheni Melo, Menaxhimi bazë të dhënash, 2018, EneaS, Tiranë.

Laboratory Work**Computer Usage****Other****Learning Outcomes and Competences**

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 Methods

In-term studies	Quantity	Percentage
Midterms	1	10
Quizzes	0	0
Projects	1	20
Term Projects	0	0
Laboratory	0	0
Attendance	1	10
Contribution of in-term studies to overall grade		40
Contribution of final examination to overall grade		60
Total		100

ECTS (Allocated Based on Student) Workload

Activities	Quantity	Duration (hours)	Total Workload (hours)
Course Duration (Including the exam week : 16 x Total course hours)	16	4	64
Hours for off-the-classroom study (Pre-study, practice)	14	4	56
Assignments	1	0	0
Midterms	1	0	0
Final examination	1	2	2
Other	0	0	0
Total Work Load			122
Total Work Load / 25 (hours)			4,88
ECTS			5