SYLLABUS

Təsdiq edirəm
Kafedra müdiri
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Course Content	**Faculty:**	Pedagogy
	Department:	Math and Informatics
	Speciality(ies)/Course(s):	Riyaziyyat və İnformatika müəllimliyi
	Subject code and name:	MINF463 Database and management systems
	Education Year - Semester	2022 – 2023 / 1
	Level:	bachelor
	Language:	En
	Compulsory / Elective:	Elective
	Prerequisite:	
	Instructors:	Rasim Mahmudov
	Email:	ramahmudov@beu.edu.az
	Phone:	+99455-705-92-89
	Consulting Hours and place:	Wednesday, 12:00 - 14:00, Place: 312

Subject hours				Credits	
Theory	**Seminar**	**Laboratory**	**Total**	**Credit**	**ECTS**

Learning Objectives:	This course introduces database management systems using the MySql database from simple to advance principles. Emphasis is placed on event-driven database methods, including creating and manipulating database and or tables.
Learning Outcomes and Competences:	Upon completion, students should be able to convert any computer into Mysql server, management of mysql servers, creating and understanding sql queries .etc
Text books and/or References:	1) https://www.w3schools.com/sql/sql_intro.asp 2) https://rasimmax.com/fs

	Student workload	Methods	Percent
Assessment Criteria	**Midterm Activity -1**	Task/Quiz	
	Midterm Activity -2	Task/Quiz	
	Midterm Activity -3		
	Attendance		
	Midterm Individual Activity	Task/Quiz	
	Laboratory Work		
	Final Exam	Quiz	
	Other		

Week	Subjects	Theory	Seminar	Laboratory
1.	**Introduction and Overview, E-R Models** What is database system, purpose of database system, view of data, relational databases, database architecture	2	2	
2.	**Introduction to SQL,** What's SQL? SQL History and commands. Kind of databases Relations	2	2	
3.	**Exploring Access - immersion into a simple PC-based database** Installing of MySql database and first use-test on it; SQL datatypes	2	2	
4.	**SQL Operators** Using of sql operators syntaksis .etc	2	2	
5.	**DDL Commands** Create, Drop, Alter, Truncate, Comment, Rename			
6.	**DQL Command: Select** Order By, Group By, Having, Complex queries	2	2	
7.	**Single row functions** General functions, Date functions, Number,String, Case conversion and etc. functions	2	2	
8.	**DML Commands** Insert, Update, Delete: definition of these commands	2	2	
9.	**DCL Commands** Grant, Revoke	2	2	
10.	**TCL Commands** Commit, Rollback, Savepoint, Transaction	2	2	
11.	**Joins in MySQL** Inner join, Left join, Right join, Full join	2	2	
12.	**Subqueries, REGEX** Explaning of complex queries in mysql, interval , datetime types and using regex in mysql	2	2	
13.	**SQL Views, Indexes** Creating Sql views and Indexes and getting ready for use	2	2	
14.	**Stored Procedures and Triggerrs** Explaining and creating examples for procedures and triggers in MySql	2	2	
15.	**Repetition all previous topics**	2	2	

Evaluation criteria:

91 – 100 grades	excellent	A
81 – 90 grades	Very good	B
71 – 80 grades	good	C
61 – 70 grades	sufficient	D
51 – 60 grades	satisfactory	E
<51 grades	unsufficient	F

Instructor: Rasim Mahmudov

(Name, surname, middle name)

Signature:

Date : 08.09.22