



Меѓународен Универзитет Визион - International Vision University  
 Universiteti Ndërkombëtar Vizion - Uluslararası Vizyon Üniversitesi

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### SYLLABUS

COURSE NAME	COURSE CODE	SEMESTER	COURSE LOAD	ECTS
DATABASES	4018	4	180	6

<b>Prerequisite(s)</b>	None
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<b>Course Language</b>	Turkish
<b>Course Type</b>	Required
<b>Course Level</b>	First Cycle
<b>Course Lecturer</b>	
<b>Course Assistants</b>	
<b>Classroom</b>	
<b>Extra-Curricular Office Hours and Location</b>	<b>Meeting: Consultancy:</b>

<b>Course Goals</b>	The aim of this course is to teach and provide the students with the database concepts, relationship model, relational algebra, application developments, database design, normalization, entity-relationship model, simultaneous operation, movements, SQL databases, and object-relation mapping.
<b>Program Outcomes</b>	Upon successful completion of the course; the students will be able to learn about: <ul style="list-style-type: none"> <li>• Modeling of the large amount of data for efficient process;</li> <li>• Design of software applications that can process large amounts of database and application.</li> <li>• Choosing the necessary database software components and appropriate models to be used in the project</li> <li>• Operations as part of a teamwork and providing the done work to audience.</li> </ul>
<b>Course Contents</b>	The course content includes: Relation Model, Relation Model-SQL, Relation Algebra, Database Design, Practice Session, Simultaneous Operation, Optimization etc.

## WEEKLY SUBJECTS AND RELATED PREPARATION STUDIES

<b>Week</b>	<b>Subjects</b>	<b>Related Preparation</b>
1	Introduction	Related Chapters of Course Sources
2	Relation Model	Related Chapters of Course Sources
3	Relation Model-SQL	Related Chapters of Course Sources
4	Relation Algebra	Related Chapters of Course Sources
5	Relation Algebra-SQL	Related Chapters of Course Sources
6	Database Design	Related Chapters of Course Sources
7	Mid-term Exam	Related Chapters of Course Sources
8	Practice Session	Related Chapters of Course Sources
9	Simultaneous Operation	Related Chapters of Course Sources
10	NoSQL Database	Related Chapters of Course Sources
11	Optimization	Related Chapters of Course Sources
12	Project Presentations and Representations	Related Chapters of Course Sources
13	Project Presentations and Representations	Related Chapters of Course Sources
14	Reviewing of the Semester	Related Chapters of Course Sources
15	Final Exam	Related Chapters of Course Sources

**ECTS / WORKLOAD TABLE**

Presentation / Seminar			
Hours for off-the-classroom study (Pre-study, practice)	14	3	42
Midterm Exam	1	12	12
Final examination	1	14	14
<b>Total Work Load</b>			
<b>ECTS</b>		<b>6</b>	

**GENERAL PRINCIPLE RELATED WITH COURSE**

Dear students,

In order to be included, learn and achieve full success that you deserve in the courses you need to come well prepared by reading the basic and secondary textbooks. We are expecting from you carefully to obey to the course hours, not to interrupt the lessons unless is very indispensable, to be an active participant on the courses, easily to communicate with the other professor and classmates, and to be interactive by participating to the class discussions. In case of unethical behavior both in courses or on exams, will be acting in framework of the relevant regulations. The attendance of the students will be checked in the beginning, in the middle or at the end of the lessons. Throughout the semester the students who attend to all lectures will be given 15 activity-attendance points in addition to their exam grades.

**KAYNAKLAR**

<b>COMPULSORY LITERATURE</b>		
<b>No</b>	<b>Name of the book</b>	<b>Author's Name, Publishing house, Publication Year</b>
<b>1</b>	Veritabanları	Ryan Stephens , Row Piew ALFA YAYINLARI ,2003
<b>2</b>	Алгоритми и структури на податоци	Владимир Трајковиќ ,интерна скрипта на ФИНКИ 2010
<b>3</b>	AN INTRODUCTION TO DATABASE SYSTEMS	C.J. DATE, ADDISON- (Textbook) WESLEY, 2004,

<b>ADDITIONAL LITERATURE</b>		
<b>No</b>	<b>Name of the book</b>	<b>Author's Name, Publishing house, Publication Year</b>
<b>1</b>	Hızlı Çözümler Microsoft Access Veritabanları	Virginia Andersen, ARKADAŞ YAYINLARI ,2001
<b>2</b>	Skiena The Algorithm Design Manual	Steven S. Springer 2008
<b>3</b>		

## EVALUATION SYSTEM

<b>Underlying the Assessment Studies</b>	<b>NUMBER</b>	<b>PERCENTAGE OF GRADE</b>
Attendance/Participation	15	%10
Project / Event	1	%20
Mid-Term Exam	1	%35
Final Exam	1	%35
<b>TOTAL</b>	<b>17</b>	<b>%100</b>

## ETHICAL CODE OF THE UNIVERSITY

In case of the students are cheating or attempt to cheat on exams, and in the case of not to reference the sources used in seminar studies, assignments, projects and presentations, in accordance to the legislations of the Ministry of Education and Science of Republic of Macedonia and International Vision University, will be applied the relevant disciplinary rules. International Vision University students are expected never to attempt to this kind of behavior.