



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
DISCRETE MATHEMATICS	4015	3	180	6

Prerequisite(s)	None
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Course Language	Turkish
Course Type	Elective
Course Level	First Cycle
Course Lecturer	
Course Assistants	
Classroom	
Extra-Curricular Office Hours and Location	

Course Objectives	The aim of this study is to provide information about the basics of discrete structures and discrete mathematics, to describe the basic mathematical structure of the computer, mathematical thinking, teaching how to establish cause-effect relationships, and gaining the algorithmic thinking.
Course Learning Outcomes	1-To enable students to solve problems by analytical, numerical and statistical methods and constructing mathematical models. 2-To enable students to solve problems by using algorithms that can be applied to computers 3-To enable students to use mathematics in other disciplines 4-To enable students to use the ability of abstract thought
Course Contents	The course begins with set theory and we cover: Computer Operating Principles, logic, counting, Sets, matrices, Graph Theory, Directed Graphs, Algebraic Systems, etc.

WEEKLY SUBJECTS AND RELATED PREPARATION STUDIES

Week	Subjects	Related Preparation
1	Propositional logic and proof methods	Related Chapters of Course Sources
2	Sets, Functions, Arrays	Related Chapters of Course Sources
3	Algorithms	Related Chapters of Course Sources
4	Computational Number Theory and Applications	Related Chapters of Course Sources
5	Correlations and Transactions	Related Chapters of Course Sources
6	Matrices	Related Chapters of Course Sources
7	Mid-term Exam	Related Chapters of Course Sources
8	Mathematical Reasoning	Related Chapters of Course Sources
9	Graph Theory	Related Chapters of Course Sources
10	Lattice	Related Chapters of Course Sources
11	Trees	Related Chapters of Course Sources
12	Recurrence relation	Related Chapters of Course Sources
13	Boolean Algebra	Related Chapters of Course Sources
14	Finite State Machines	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
Total Work Load			
ECTS		6	

GENERAL PRINCIPLE RELATED WITH COURSE

Dear students,

You need to be included in the flow, please follow the course of learning and using that to achieve our success you deserve, you need to practice every day on topics that are covered by the course. It takes practice reading basic and auxiliary literature that is strictly recommended. You should visit classes course I need to make an effort to visit all the professors' lectures. Your activity on the session will be assessed by your professors and the Battle active participant in the discussions that will take place during the time. Students visiting lectures for all at the end if an additional 15 points.

SOURCES

COMPULSORY LITERATURE

No	Name of the book	Author's Name, Publishing house, Publication Year
1	Ayrık İşlemsel Yapılar	Fusun Selçuk, Nejat Yumuşak, Nilüfer Yurtay, Sakarya Kitabevi, 2005.
2		
3	Discrete Mathematics and Its Applications,	Rosen K. H., Mc Graw Hill, 6E, 2007.

YARDIMCI KAYNAKLAR

No	Kitabın İsmi	Yazarın İsmi, Yayın Evi, Yayın Yılı
1		
2		
3		

EVALUATION SYSTEM

Underlying the Assessment Studies	NUMBER	PERCENTAGE OF GRADE
Attendance/Participation	14	%15
Project / Event	1	%15
Mid-Term Exam	1	%35
Final Exam	1	%35
TOTAL	14	%100

ETHICAL CODE OF THE UNIVERSITY

In case students are cheating on exams or preparation the same, it is not making reference to the source to be used in studies, as for example in assignments, projects and presentation (plagiarism), in accordance with legislations by Ministry of Education and Science of the Republic of Macedonia and International Vision University, apply relevant disciplinary rules. International Vision University students are expected never attempts in this kind of behavior.