



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
ALGEBRAIC STRUCTURES	4024	4	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	To provide a first approach to the subject of algebra, which is one of the basic pillars of modern mathematics and to study of certain structures called groups, rings, fields and some related structures
Course Learning Outcomes	The students who succeeded in this course; will be able to define algebraic structures. will be able to construct substructures. will be able to analyze a given structure in detail. will be able to develop new structures based on given structures. will be able to compare structures.
Course Contents	In this course, the basic pillars of modern mathematics will be introduced and analyzed. These structures include groups, rings, fields, any mapping between them and their substructures.

WEEKLY SUBJECTS AND RELATED PREPARATION STUDIES

Week	Subjects	Related Preparation
1	Basic concepts, Relations, Functions.	Related Chapters of Course Sources
2	Binary operations	Related Chapters of Course Sources
3	Integers modular arithmetic	Related Chapters of Course Sources
4	Group actions	Related Chapters of Course Sources
5	Subgroups	Related Chapters of Course Sources
6	Cyclic subgroups	Related Chapters of Course Sources
7	Mid-term Exam	Related Chapters of Course Sources
8	Normal Groups	Related Chapters of Course Sources
9	Quotient Set, Quotient group	Related Chapters of Course Sources
10	Homomorphism's	Related Chapters of Course Sources
11	Homomorphism's	Related Chapters of Course Sources
12	Isomorphism's, automorphisms	Related Chapters of Course Sources
13	Symmetric groups	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
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	Lineer Cebir ve Çözümlü Problemleri	Prof. Dr. A. Göksel Ağargün, BİRSEN YAYINEVİ ,2011
2	Виша математика	Б. Трпеновски, Н. Целаковки, Г. Чупона III Просветно дело 1994
3	A First Course in Abstract Algebra	J.B. Fraleigh, Addison Wesley

ADDITIONAL LITERATURE

No	Name of the book	Author's Name, Publishing house, Publication Year
1	Örneklerle Soyut Cebir	Fethi Çallıalp , Birsen yayımları 2001 istanbul
2		
3	Introduction to Linear Algebra	Gilbert Strang, 4th Edition, Wellesley-Cambridge Press and SIAM 2009

EVALUATION SYSTEM

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