



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

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DERS İZLENESİ (SYLLABUS)

COURSE NAME	COURSE CODE	SEMESTER	COURSE LOAD	ECTS
MICROCOMPUTER SYSTEMS	4030	6	240	8

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

Course Objectives	Design microprocessor based systems and implementing various applications in the lab.
Course Learning Outcomes	The ability of designing conceptual microprocessor systems and developing target based software
Course Contents	Number systems. Computer architecture: Memory, Central Processing Unit (CPU), Input/Output Devices (I/O). Memory: Physical and functional features, design of memory. CPU: Structure of CPU, addressing methods, operational codes. Software technics: Assembly language, syntax, pseudo-codes, assembler, interrupt, stack. I/O Devices: Parallel interface (PIA), asynchronous serial interface (ASIA). Peripheral devices. Examples of fundamental application

WEEKLY SUBJECTS AND RELATED PREPARATION STUDIES

Week	Subjects	Related Preparation
1	Introduction, number systems, fundamental logic components	Related Chapters of Course Sources
2	Memory and design	Related Chapters of Course Sources
3	Structure of CPU	Related Chapters of Course Sources
4	Instruction, programming, addressing methods	Related Chapters of Course Sources
5	Instruction (continue)	Related Chapters of Course Sources
6	Parallel Interface Adaptor	Related Chapters of Course Sources
7	Mid-term Exam	Related Chapters of Course Sources
8	Serial Interface Adaptor	Related Chapters of Course Sources
9	Subroutine, interrupt and stack concept	Related Chapters of Course Sources
10	Digital Analog Converters, sample applications	Related Chapters of Course Sources
11	Analog Digital Converters, sample applications	Related Chapters of Course Sources
12	Peripheral devices	Related Chapters of Course Sources
13	Samples of fundamental application	Related Chapters of Course Sources
14	Samples of fundamental application	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.

COMPULSORY LITERATURE

No	Name of the book	Author's Name, Publishing house, Publication Year
1	Mikro İşlemciler ve Mikro Denetleyiciler	Yük. Tek. Öğr. Bedri Bahtiyar NOBEL YAYIN DAĞITIM,2007
2		
3	Logic and Computer Design	M. Morris Mano, Charles Kime, Prentice Hall 2007

ADDITIONAL LITERATURE

No	Name of the book	Author's Name, Publishing house, Publication Year
1	Mikroişlemciler	M. Kaya Yazgan NOBEL YAYIN DAĞITIM , 2015
2		
3	Computer Organization	Patterson and John L. Hennessy & Morgan Kaufman 2011

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.