

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
FUNDAMENTALS OF TELECOMMUNICATIONS	4017	3	180	6

Prerequisite(s)	None		
Course Language	Turkish		
Course Type	Elective		
Course Level	First Cycle		
Course Lecturer			
Course Assistants			
Classroom			
Extra Curricular	Meeting:		
Office Hours and	Consultancy:		
Location			
	T		
Course Objectives	The aims of this course is understanding basic terms and principles of signal processing in telecommunication transmission, describing basic principles of the modern digital telecommunications, implementing acquired knowledge in professional specialist courses (theoretical and practical), understanding basic operation settings for telecommunication systems and equipment.		
Course Learning	On successful completion of this course, student should be able to:		
Outcomes			
	 explain basic physical and technical principles of modern digital telecommunications, 		
	 describe basic principles of operation in modern digital telecommunication equipment and systems, 		
	 demonstrate measurements and experiments in laboratory on actual components, devices, equipment and systems in telecommunications, 		
	 describe development and implementation methods of telecommunication systems, 		
	 examine communication equipment for the technical functionality. 		
Course Contents	Introduction to data communication, Standards and architecture model used in data communication, Coding of signaling and signal, Parallel and serial communication, Communications environments and specifications, Multiplexing (time and frequency in context), Error detection and error correction techniques, Data link control techniques, flow control, The most compatible and the incompatible data link protocols, IEEE 802- local area network technology, Connected and disconnected services, keying.		

WEEKLY SUBJECTS AND RELATED PREPARATION STUDIES

Week	Subjects	Related Preparation
1	Introduction to data communication	Related Chapters of Course Sources
2	Standards and architecture model used in data communication	Related Chapters of Course Sources
3	Coding of signaling and signal	Related Chapters of Course Sources
4	Parallel and serial communication	Related Chapters of Course Sources
5	Communications environments and specifications	Related Chapters of Course Sources
6	Multiplexing (time and frequency in context)	Related Chapters of Course Sources
7	Mid-term Exam	Related Chapters of Course Sources
8	Error detection and error correction techniques	Related Chapters of Course Sources
9	Data link control techniques, flow control	Related Chapters of Course Sources
10	Evaluation of the mid-term exam questions	Related Chapters of Course Sources
11	The most compatible and the incompatible data link protocols	Related Chapters of Course Sources
12	IEEE 802- local area network technology	Related Chapters of Course Sources
13	Connected and disconnected services, keying	Related Chapters of Course Sources
14	Review	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,

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.

SOURCES

COMPULSORY LITERATURE			
No	No Name of the book Author's Name, Publishing House, Publication Year		
1	Ağ Teknolojileri ve Telekomünikasyon	Dr. Cebrail Taşkın, Pusula Yayıncılık ve İletişim, 2014	
2	Data & Computer Communications	William Stalings	
3			

	ADDITIONAL LITERATURE			
No	Name of the book	Author's Name, Publishing House, Publication Year		
1	Bilişim Sistemleri,Bilgisayar Bilgi İşlem ve Telekomünikasyon	Prof. Dr. Emin Doğan Aydın, Doruk Yayınları,1992		
2	Data Networks:Concepts, Theory and Practice	Uyless D.Black		
3				

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 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.