



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
MULTIMEDIA	4038	7	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	Meeting: Consultancy:

Course Objectives	Multimedia data has become an indispensable part of our daily life and modern computer technology. Multimedia hardware and software, issues in effectively representing, processing and transmitting multimedia data topics will be introduced in multimedia systems design.
Course Learning Outcomes	The students who complete the course successfully; <ul style="list-style-type: none"> • Develop problem-solving skills in digital media design at a specific time. • Will be able to decide about creative thoughts and ideas on how to transfer the application. A project which is able to design process from idea to final execution. • Will be able to evaluate the issue of how to use the Moving and interactive media attention and basic animation and interaction techniques.
Course Contents	This course will give information about principles and current technologies of multimedia systems. Representing, processing, and retrieving multimedia data such as sound, music, image, animation, video and graphics will be discussed.

WEEKLY SUBJECTS AND RELATED PREPARATION STUDIES

Week	Subjects	Related Preparation
1	Introduction to Multimedia Systems	Related Chapters of Course Sources
2	Multimedia Tools and Libraries (Matlab, SDL, OpenCV and Others)	Related Chapters of Course Sources
3	Information Theory and Transmission	Related Chapters of Course Sources
4	Lossless Compression	Related Chapters of Course Sources
5	Lossless Compression	Related Chapters of Course Sources
6	Image Processing and Analysis in Multimedia Applications	Related Chapters of Course Sources
7	Mid-term Exam	Related Chapters of Course Sources
8	Audio Analysis, Compression and Standards	Related Chapters of Course Sources
9	Motion and Video Compression	Related Chapters of Course Sources
10	Content based Multimedia Retrieval	Related Chapters of Course Sources
11	Animation	Related Chapters of Course Sources
12	Project Presentation-1	Related Chapters of Course Sources
13	Project Presentation-2	Related Chapters of Course Sources
14	Project Presentation-3	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	Name of the book	Author's Name, Publishing House, Publication Year
1	Multimedya ve Görsel Tasarım	Ayten Öztürk , Dr. Serkan Perkmen, Profil Yayıncılık, 2009
2	Multimedia Fundamentals: Media Coding and Content Processing	Ralf Steinmetz, Klara Nahrstedt
3		

ADDITIONAL LITERATURE

No	Name of the book	Author's Name, Publishing House, Publication Year
1	Multimedya Öğreniyorum	William D. Harrel, Alfa Yayınları
2	Multimedia Systems	Ralf Steinmetz, Klara Nahrstedt
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.