Course Description		
Course Code	YS 426	
Course Name	ANIMATION AND APPLICATIONS	
Prerequisite Courses		
Language of the Course	The English	
Course Coordinator		
Instructor(s)		
Course Assistants		
The aim of the course	The course will cover the advanced concepts in computer graphics	
Course Content	Basic transformations and animation applications using OPENGL software.	

Weekly Course Content			
Week 1	Introduction to OPENGL		
Week 2	Introduction to OPENGL		
Week 3	Drawing Geometric Objects using OPENGL		
Week 4	Drawing Geometric Objects using OPENGL		
Week 5	2-dimensional transformations using OPENGL		
Week 6	3-dimensional transformations using OPENGL		
Week 7	3-dimensional transformations using OPENGL		
Week 8	Midterm Exam		
Week 9	Color using OPENGL		
Week 10	Color using OPENGL		
Week 11	Display Lists in OPENGL		
Week12	Display Lists in OPENGL		
Week 13	Lighting in OPENGL		
Week 14	Lighting in OPENGL		
Week 15	Final exam.		

Course Learning Outcomes 1 The teaching of the advanced

Contribution of the Course to Program Qualifications

Contribution

		Level
01	The student will have the ability to apply analytical approach, mathematics and science knowledge in software and engineering issues.	3
02	The student will have the ability to identify, define, formulate and solve a problem in software and computer systems.	4
03	The student will have gains scientific research skills in software and engineering problems, has the ability to design a system, part or process.	0
04	The student will have the ability to use the design capability, techniques and tools required for engineering applications.	4
05	The student will have the ability to design, implement and interpret experimental work and software projects by analyzing the results.	0
06	The student will have the ability to work between disciplines and teamwork.	4
07	The student will have the ability to work in international environments and adapt to different cultures.	3
08	The student will have verbal and written communication skills in Turkish and English.	0
09	The student will have the awareness of the necessity of lifelong learning and the ability to realize it.	4
10	The student will gain knowledge of legal issues with the awareness of professional and ethical responsibility.	0
11	The student will have managerial skills (leadership, organization, time and risk management, quality awareness, efficiency, etc.).	3
12	The student will have the ability to participate in social activities, to acquire regular sports habits and to use time in the best way.	4
13	The student will have the ability to find unusual ways and produce projects.	3
14	The student will have professional self-confidence, being an entrepreneur and taking initiative.	3
15	It is sensitive about the problems of the age and looks after the national interests.	3

	Number	Duration (hours)	Number*Duration
Face to face education	14	2	2
Out-of-class study time (pre-study, reinforcement)	7	2	1
Homeworks	2	6	1
Presentation / Seminar preparation	1	2	
Quizzes	0	0	
Preparation for midterm exams	1	6	
midterm exams	0	0	
Project (Semester assignment)	1	10	10
Lab	1	5	
field work	0	0	
Preparation for the final exam	1	10	1
Semester final exam	1	2	
Research	0	0	
TOTAL WORKLOAD			8
ECTS			:

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Evaluation		
SEMESTER EVALUATION	Number	Contribution Percentage
Midterm	1	20
Quiz	0	0
Homework	2	20
SEMESTER TOTAL		40
Contribution rate of mid-term evaluations to success		40
Contribution rate of the final exam to success		60
GRAND TOTAL		100

RESOURCES

Textbook	
'	Computer Graphics:Principles and Practice in C, Addison-WesleyFoley, J. D., Dam, A., Feiner, S. K., Hughes, J. F., Geometric Tools for Computer Graphics, Morgan Kaufmann, Schneider, P., Eberly, D. DComer, D.E.