	CON	IPUTE	R GRAPHICS							
1	Course Title:	COMPU	TER GRAPHICS							
2	Course Code:	BMB3013								
3	Type of Course:	Optional								
4	Level of Course:	First Cycle								
5	Year of Study:	3								
6	Semester:	5								
7	ECTS Credits Allocated:	5.00								
8	Theoretical (hour/week):	3.00								
9	Practice (hour/week):	0.00								
10	Laboratory (hour/week):	0								
11	Prerequisites:									
12	Language:	Turkish								
13	Mode of Delivery:	Face to face								
14	Course Coordinator:	Dr. Ögr. Üyesi CEYDA NUR ÖZTÜRK								
15	Course Lecturers:									
16	Contact information of the Course Coordinator:									
17	Website:									
18	Objective of the Course:	To gain ability to apply theoretical and practical information about computer graphics for modeling and solving engineering problems; To gain ability to determine, define, formalize and solve complex engineering problems which encountering in computer graphics with selecting proper analysis and modeling method;								
	Professional Development:									
20	Learning Outcomes:									
		1	To gain ability to apply theoretical and practical information about computer graphics for modeling and solving engineering problems;							
		2	To gain ability to determine, define, formulize and solve complex engineering problems which encountering in computer graphics with selecting proper analysis and modeling method;							
		3								
		4								
		5								
		6								
		7								
		8								
		9								
		10								
21	Course Content:									
		Co	ourse Content:							
Week	Theoretical		Practice							

1	Introduction								
2	Graphics Hardware								
3	Graphics Software								
4	Basic Mathematics for Computer Gra	aphics							
5	2D Translation								
6	3D Translation								
7	Projections								
8	Rendering								
9	Rendering								
10	Illuminations and shading								
11	Illuminations and shading								
12	Clipping								
13	Colors								
14	Virtual Reality and Computers Graph	ics							
Activit	es		Number	Duration (hou	r) Total Work Load (hour)				
Theore	tical		14	3.00	42.00				
Practic	als/Labs		0	D.00	0.00				
Self stu	dy and preperation		Angel, Dave Shre	einer, 20 <u>21</u> 806/E, Pearso	n Ezely@ation, Inc.				
Homew	vorks		10	3.00	30.00				
Project	8		OpenGL, Donald	D. HeamoM. Pauline Ba	akər, Marren				
Field S	tudies		0	0.00	0.00				
Midtern	n exams		Recommended -	Textbook Bocedural E	leinente for 98 2/E McGraw-				
Others			0	0.00	0.00				
Final E	xams		1 Recommended -	25.00 Textbook: Computer Gr	25.00 arbics Principles				
Total W	/ork Load				150.00				
Total w	ork load/ 30 hr		Sklar, J. D. Foley Addison-Wesley	, S. K. Feiner, K. Akeley Professional (Pearson F	, 2014, 3/E, ducation_Inc.)				
ECTS (	Credit of the Course				5.00				
			Recommended - Textbook: Mathematical Elements for Computer Graphics, D.F. Rogers and J.A. Adams , 1990, 2/E, Mc-Graw Hill Required - Software: OpenGL Graphics Library - The Industry's Foundation for High Performance Graphics, Khronous Group , 2014, OpenGL 4.5, Khronous Group Recommended - Software: Microsoft Visual Studio .NET (C++ or Java) , Microsoft Co., 2008, Microsoft Co. [download]						
23	Assesment								
	EARNING ACTIVITIES	NUMBE R	WEIGHT						
Midtern	n Exam	1	40.00						
Quiz		0	0.00						

Home work-project 0						0.0	0.00									
Final Exam 1						60.	60.00									
Total 2							10	0.00								
Contribution of Term (Year) Learning Activities to Success Grade							40.	40.00								
Contribution of Final Exam to Success Grade							60.	60.00								
Total							10	100.00								
Measurement and Evaluation Techniques Used in the Course							ne									
24 EC	CTS /	WO	RK L	OAD	) TAB	LE										
25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		.	LO: L	earr	ning (	Dbjec	tive	s P	Q: P	rogra	im Qu	alifica	tions	5		•
Contrib 1 very low ution Level:			2 low		3 Medium			4 High			5 Very High					