BM447 GAME DEVELOPM 7 Introduction of game engine 3D models into game engine physics, particle systems, ga 1. Unity Game Developmen 2021	MENT (TECH e, scene creatio e, using prefab me building av	.ELECT.)					
7 Introduction of game engine 3D models into game engine physics, particle systems, ga 1. Unity Game Developmen 2021	e, scene creatio e, using prefab me building a	n player characters visualization importing					
Introduction of game engine 3D models into game engine physics, particle systems, ga 1. Unity Game Developmen 2021	e, scene creatione, using prefab ume building au	on player characters visualization importing					
1. Unity Game Developmen	Introduction of game engine, scene creation, player characters, visualization, importing 3D models into game engine, using prefabs, scripting, UI creation, timing, rigid bodies physics, particle systems, game building and distribution						
 Unity Game Development in 24 Hours, 4th Edition, Mike Geig, Sams Publishing, 2021 							
1. Unity in Action, Third Edition: Multiplatform game development in C#, 3rd Edition, Joe Hocking, Manning, 2022							
6							
There is no prerequisite or co-requisite for this course.							
Technical Elective							
Turkish							
To teach about game engine workspace, traditional game project workflow, how to create and optimize game world.							
 Conveys information about what game development is and how to do it using a game engine. Conveys information about game engine concepts, working environment and traditional project flow. Creates games using game engine. 							
The mode of delivery of this course is face to face							
Week 1: Game engine environment and UIWeek 2: Camera features and visualizationWeek 3: User interactionsWeek 4: ScriptingWeek 5: Player charactersWeek 6: Prefab and instantiationWeek 7: Rigid bodiesWeek 8: Ray tracing, colliders, collision detectionWeek 9: Terrain editorWeek 10: Particle systemsWeek 11: Importing 3D models into game engineWeek 12: Animated charactersWeek 13: Menu designWeek 14: Puilding and distributing approx							
Weekly theoretical course hours: 3 Reading activities Internet search and library work Designing and implementing materials Midterm and revision for midterm Final exam and revision for final exam							
Number(s)Weight (%)Midterm exam130Assignment330Application000Project000							
	1. Unity Game Developmen 2021 1. Unity in Action, Third Ed Joe Hocking, Manning, 2022 6 There is no prerequisite or c Technical Elective Turkish To teach about game engine create and optimize game w 1. Conveys information abo game engine. 2. Conveys information abo game engine. 2. Conveys information abo traditional project flow. 3. Creates games using gam The mode of delivery of this Week 1: Game engine envir Week 2: Camera features an Week 3: User interactions Week 4: Scripting Week 5: Player characters Week 6: Prefab and instantia Week 7: Rigid bodies Week 8: Ray tracing, collide Week 9: Terrain editor Week 11: Importing 3D moot Week 12: Animated charact Week 13: Menu design Week 14: Building and distr Week 13: Menu design Week 14: Building and distr Week 14: Building and distr	physics, particle systems, game building an 1. Unity Game Development in 24 Hours, 2021 1. Unity in Action, Third Edition: Multipla Joe Hocking, Manning, 2022 6 There is no prerequisite or co-requisite for Technical Elective Turkish To teach about game engine workspace, create and optimize game world. 1. Conveys information about what game game engine. 2. Conveys information about game engine traditional project flow. 3. Creates games using game engine. The mode of delivery of this course is face Week 1: Game engine environment and U Week 2: Camera features and visualization Week 3: User interactions Week 4: Scripting Week 5: Player characters Week 8: Ray tracing, colliders, collision devek 9: Terrain editor Week 10: Particle systems Week 11: Importing 3D models into game Week 12: Animated characters Week 13: Menu design Week 14: Building and distributing games Week 14: Building and distributing games					

	Quiz 0		0	0						
	Final exam 1		40							
	Total 5			100						
	Activity		Number of Weeks	Duration (Weekly Hour)		y S	End of Semester Total Workload			
	Weekly the	oretical course	hours	14		3 42		42	12	
	Weekly pra	Weekly practical course hours		0		0		0		
	Reading activities			11		3		33		
	Internet search and library work		work	11		3		33		
Workload of the Course	Designing and implementing materials		3		6		18			
	Making a report		0		0		0			
	Preparing and making presentations		0		0					
	Midterm an	d revision for r	nidterm	1		10		10		
	Final exam and revision for final		or final	1	14			14		
	exam							170		
	Total workload							150		
	Course Cre	$\frac{1}{1}$							6	
Contribution Loval	No.					1	<u> </u>	2	0	
between Course Outcomes	INO	Knowledge of	f mathematic	comes		1	2	3	4	
and Program Outcomes	1	engineering, c	computing, a	and computer						v
	1	engineering; a	ering; ability to use this knowledge in							Λ
		solving comp	lex engineer	ing problems.						
		complex engin	complex engineering problems using basic							
	2	science, mathematics and engineering							v	
	2	knowledge and considering the UN							Λ	
		Sustainable D	inable Development Goals relevant to roblems addressed							
		Ability to des	ign creative	solutions to						
		complex engineering problems; ability to								
	3	design complex systems, processes, devices,			s,			X		
		current and future requirements, considering			וס					
		realistic const	raints and co	ts and conditions.						
		Ability to sele	ect, use and	develop appropria	opropriate					
	4	techniques, resources and modern		~						
		estimation and modeling, for the analysis and		nd				X		
		solution of co	solution of complex engineering problems							
		while being aware of their limitations.								
		Ability to use	research me	thods to examine						
		topics in com	cs in computer engineering, including							
	5	reviewing the literature, designing					X			
		experiments, conducting experiments,								
		results.								
		Knowledge of	f the effects	of engineering						
	6	practices and the standards used in these practices on society, health and safety, economy sustainability and environment								
		economy, sustainability and environment within the scope of the UN Sustainable				Х				
		Development	ment Goals; awareness of the							
		consequences	of engineer	eering solutions in the						
	7	Acting in accord	mation secu	rity and law.			v			
	/	professional p	rinciples an	d knowledge on			Λ			

		ethical responsibility; awareness of acting impartially, without discrimination on any issue, and being inclusive of diversity.			
	8	Ability to work effectively individually and as a team member or leader in intradisciplinary and multidisciplinary teams (face-to-face, remote, or hybrid).	X		
	9	Ability to conduct effective verbal and written communication on technical issues in Turkish or English, prepare reports, make effective presentations and prepare software documentation, considering the various differences of the target audience (such as education, language, profession).			
	10	Knowledge of business practices such as project, risk and change management and economic feasibility analysis; awareness of entrepreneurship and innovation.			
	11	Lifelong learning skill that includes the ability to learn independently and continuously, to adapt to new and developing scientific practices and technologies, and to think inquisitively about technological changes.		X	
Lecturer(s) and Contact Information	Assist. Prof. onerbarut@g	Dr. Öner BARUT azi.edu.tr			