DIGITAL GAME DESIGN

1st SEMESTER

CODE	COURSE	T	P	ECTS	Language of Instruction
ATA101	Atatürk İlkeleri ve İnkılap Tarihi 1	0	2	2	EN
DGD101	Differential and Integral Calculus	3	2	7	EN
DGD103	Computational Thinking	3	2	8	EN
DGD105	Introduction to 3D Modelling	3	2	7	EN
DGD107	Computer Literacy	3	0	4	EN
TRK101	Türk Dili 1	0	2	2	TR
	TOTAL	12	8	30	

2nd SEMESTER

CODE	COURSE	T	P	ECTS	Language of Instruction
DGD201	Computer Animation (Autodesk Maya)	0	2	2	EN
DGD203	Basic Programming 3 (C#)	2	2	5	EN
DGD205	Game Development Pipeline	2	3	8	EN
SEG001	Manifest of Istinye 1	1	4	7	EN/TR
	Department Elective				EN
	University Elective (English for Specific Purposes 1)	0	2	2	EN
	TOTAL	5	13	30	

3rd SEMESTER

CODE	COURSE	T	P	ECTS	Language of Instruction
DGD201	Computer Animation (Autodesk Maya)	3	2	7	EN
DGD203	Basic Programming 3 (C#)	2	2	6	EN
DGD205	Game Development Pipeline	3	1	6	EN
SEG001	Manifest of Istinye 1	1	0	1	EN/TR
	Department Elective			5	EN
	University Elective (English for Specific Purposes 1)			5	EN
	TOTAL	12	6	30	

4th SEMESTER

CODE	COURSE	T	P	ECTS	Language of Instruction
DGD202	Game Engine (Unreal Engine)	2	0	2	EN
DGD204	Foundations of Simulations and Games (Unity3D)	3	1	6	EN
DGD206	Artificial Intelligence in Games	3	2	8	EN
SEG002	Manifest of Istinye 2	1	0	1	EN/TR
	Department Elective			5	EN
	Department Elective			5	EN
	University Elective (English for Specific Purposes 2)			5	EN
	TOTAL	9	3	32	

5rd SEMESTER

CODE	COURSE	T	P	ECTS	Language of Instruction
DGD301	Mobile Programming (iOS+Android)	3	2	7	EN
SEG003	Manifest of İstinye 3	1	0	1	TR/EN
	Department Elective			5	EN
	Department Elective			5	EN
	Department Elective			5	EN
	University Elective (English for Specific Purposes 3)			5	EN
	TOTAL	12	6	28	

6th SEMESTER

CODE	COURSE	T	P	ECTS	Language of Instruction
DGD302	UI/UX for Games	3	2	6	EN
DGD304	Game Engine (Unreal Engine)	2	1	2	EN
SEG004	Manifest of Istinye 4	0	1	1	TR/EN
	Department Elective			5	EN
	Department Elective			5	EN
	Department Elective			5	EN
	University Elective (English for Specific Purposes 4)			5	EN
	TOTAL	5	4	29	

7rd SEMESTER

CODE	COURSE	T	P	ECTS	Language of Instruction
DGD401	Machine Learning	3	2	7	EN
DGD491	Graduation Project 1	3	2	7	EN
	Department Elective			5	EN
	Department Elective			5	EN
	Department Elective			5	EN
	Department Elective			5	EN
	TOTAL	12	6	31	

8th SEMESTER

CODE	COURSE	T	P	ECTS	Language of Instruction
DGD402	Game Production	3	2	8	EN
DGD492	Graduation Project 2	3	2	7	EN
	Department Elective			5	EN
	Department Elective			5	EN
	Department Elective			5	EN
	TOTAL	6	4	30	

DESCRIPTION
T: Theoric
P: Practice
ECTS: European Credit Transfer System

Elective Major Area Courses

CODE	COURSE	T	P	ECTS	Language of Instruction
DGD045	Storytelling and Script Writing	2	2	5	EN
DGD026	Collaborative Game Design	2	2	5	EN
DGD004	Advanced Programming (C++,C#)	2	2	5	EN
DGD020	Game Design Preproduction	2	2	5	EN
DGD011	Advanced Web Programming	2	2	5	EN
DGD033	Advanced Game Design	2	2	5	EN
DGD008	Intoduction to Frameworks for Game Development	2	2	5	EN
DGD018	Interface and Interaction Design	2	2	5	EN
DGD009	Big Data Technologies (Scala,Julia,Spark)	2	2	5	EN
DGD037	Game Sound Design	2	2	5	EN
DGD044	Character Design for Game	2	2	5	EN
DGD029	Collaborative Game Design	2	2	5	EN
DGD014	Game Designer Tools	2	2	5	EN
DGD046	Advanced Search Engines	2	2	5	EN
DGD019	3D Character and Environment Modeling	2	2	5	EN
DGD021	3D Character Animation	2	2	5	EN
DGD035	Writing and Editing Music and Sound	2	2	5	EN
DGD010	Introduction to Programming Languages Used For Game	2	2	5	EN
DGD031	Concepts of 3D Graphics & Math	2	2	5	EN
DGD048	Multi-Player Game Design	2	2	5	EN
DGD039	Computer and Motion Graphics	2	2	5	EN
DGD024	Advanced Storytelling: Quest Logic & Level Design Devel	2	2	5	EN
DGD023	3D Rigging	2	2	5	EN
DGD049	Introduction to Digital Painting	2	2	5	EN
DGD041	Game Art	2	2	5	EN
DGD013	Game Studios	2	2	5	EN
DGD042	Digital Gaming Industry	2	2	5	EN
DGD017	Toy Product Design	2	2	5	EN
DGD028	Interaction Design	2	2	5	EN
DGD015	3D Animation	2	2	5	EN
DGD036	Game Audio	2	2	5	EN
DGD006	Multi Media Programming	2	2	5	EN
DGD040	Video Games as Visual Culture	2	2	5	EN
DGD012	Deep Learning: Methods and Applications	2	2	5	EN
DGD050	Concepting and Storytelling for Interactive Media	2	2	5	EN
DGD034	Augmented Reality and Virtual Reality	2	2	5	EN
DGD003	Reinforcement Learning	2	2	5	EN
DGD051	Introduction to Game Engines (Unity)	2	2	5	EN
DGD027	3D Modeling, Weaving and Lighting	2	2	5	EN
DGD043	Music and Sound Production for Games	2	2	5	EN
DGD025	New Media in the Creative Arts	2	2	5	EN
DGD047	Pschology of Game	2	2	5	EN
DGD022	Character Concept Art	2	2	5	EN
DGD052	3D Game Modelling	2	2	5	EN
DGD038	Visual Communication for Game Design	2	2	5	EN
DGD032	Interactive Multimedia	2	2	5	EN
DGD005	Advanced Programming (Python)	2	2	5	EN
DGD001	Programming (Java)	2	2	5	EN
DGD007	Advanced Game Programming	2	2	5	EN
DGD016	Computer Games	2	2	5	EN
DGD002	Online and Mobile Gaming	2	2	5	EN
DGD030	Client-Based Game Design	2	2	5	EN
	TOTAL	12	6	31	