

COURSE INFORMATION

1.	Name of Course											Game Design Fundamentals									
2 .	Course Code												TGD3141								
3 .														Spec	ializati	on Co	re				
4 .	(e.g.: Core, major, elective etc.) Synopsis												Game Design Fundamentals covers the fundamentals of game design in creating game. It provides students with an understanding of game prototyping and pre-								
5 .	. Version													production stage in game development. Current: January 2018 Previous: June 2016							
	Name (a) of Assetsmis Ctaff													0	A II						
6 . 7 .	Name(s) of Academic Staff Semester and Year Offered														Albert ster 2		ma)				
8.	Credit Value													4	3101 2	(yaiii	πα				
9.	Pre-Requisite													TCP1	201 C	bject	Orient	ed Programming	& Data Structures		
10 .	Objective of the course in To equip students with the fu				dge of	game	desig	n and	ability	to cre	eate b	asic ga	ame	mecha	inics u	sing s	criptin	g language.			
11 .	Justification for including	4ha ac		in the																	
	To provide students with fund							id gam	ne scri	pting :	skills.										
12 .	Course Learning Outcomes (CLO) CLO1: Identify the fundamental concepts of game design.													Domain Cognitive						Level 1	
	CLO2: Construct basic	game	play ru	les us	ing sc	ripting	langu	age.						Cognitive					3		
	CLO3: Experiment with	basic	game	mecha	anics th	hrough	n game	e prototyping.						Cognitive					4		
	CLO4:																				
13 .	Mapping of the Course Lea	arning	Outc	omes	to the	Prog	ramm	e Lea	rning	Outc	omes	, Teac	hing	g Methods and Assessment:							
	Course Learning			Pr	ogram	me I	arnin	n Out	come	s (PI	O)				т	eachi	na Ma	ethods	Δεερε	sment Method	
	Outcomes (CLO) (Must tally with CLOs in item 12)	P L O 1	P L O	P L O 3	P L O 4	P L O 5	P L O 6	P L O 7	P L O 8	P L O 9	P L O 1	P L O 1	P L O 1								
	CLO1							✓						Lectu	re/Pra	ctical			Test		
	CLO2		<u> </u>						✓						re/Pra				Project		
	CLO3	1	₩	+	₩					✓				Lectu	re/Pra	ctical			Assignments		
	CLO4												ladiaa	4-44		6 . 6	40. 01.0	O hoo tialsiaa # / " th			
	Total							1	1	1			Indicate the relevancy between the CLO and PLO by (This description must be read together with standar pages 16 & 18 of COPPA 2.0)								
14 .	Transferable Skills: Leadership, Motivation, Time	mana	ageme	nt, Pri	oritisa	tion, D	elegat	ion, C	ommu	ınicati	on, Cr	itical tl	ninkir	ng							
15 .	Distribution of Student Lea	rnino	Time	/SI T																	
15 .	Distribution of Student Lea	**CLO					Teaching and Learning Activities Guided					Independent									
	Overview of Game Design and Development The basic idea of game design; evolution of games; learning game design, common term in game design; Introduction to pre-production, production and post-production.						Guided Learning (F2F)* (NF2F)*					Learning Total SLT (NF2F)*									
							_	-	Г	U											
							1						2				2	2	6		
	Elements of Game Implementations Common components of a game. Typical control methods; Serious game and storytelling; Character design; The importance of artwork and audio and musical composition; The reward system secrets and bonuses; Screen design and user interface specifications.					3						3		2		2	5	12			
	Game Analysis Differences in game platforms; Detailed analysis of game types; Application of exposure to game design; Strategies and techniques in gameplay; Leveling of the game (game level); The learning curve in games; Game design in the commercial games industry. Game Genres Different requirements of each genre; Description of various games genres; Hybrid and enhanced of existing games genres; Getting ideas and brain storming; A mapping concept through alpha prototyping.							1						3				2	3	8	
								1						3		2		2	5	12	
	Visualizing the Game in 2D Art specifications for 2D game; Creating graphics for 2D game; Introduction to the 2D and 3D art to game design 5 character; Drawing 2D art to the screen; 2D art tasks; Specifications and design for 2D game. Working with 2D sprites and animations.						3					3		5		2	8	18			

6	Visualising the Game in 3D Art specifications for 3D game; Creating graphics for 3D game; Introduction to the 3D art to game design character; Drawing 3D art to the screen; 3D art tasks; 3D modelling the environment of game.	3	3		5		2	8	18
7	Audio and Sound in Game The functions of audio in game; Music in game; Sound effects in game. Voices in game; Creating sound and music for the game; Sound and music specifications.	2	3		5		2	8	18
8	Implementing the Game Coding Overview; Game engine modules; Working with tile based engine; Non-programming and other programming tasks; Determining and creating a game flow specification; Directing parts of the games based on the game flow specification; Determining the success of the game design.	2	4		5		2	9	20
			i i	1				Total SLT	112
1. Cc	ontinuous Assessment	SUMMATIVE AS	SESSME	N I	Per	centag	ne %	Т	otal SLT
Test					25%			10	
Assig	gnments				35%			18	
Proje	ect					40%			20
							_		40
			Lota	ISLI	tor Co	ntinu	ous Assessment		48
								Т	otal SLT
2. Final Assessment					Per	centag	ge %	F2F	ILT
Final	Exam							0	0
		Т	otal SLT f	or Fi	nal Ass	essm	ent (F2F + NF2F)		0
Gran	nd Total					100%			160
	licate the CLO based on the CLO's numbering in Item 12.								
	_ecture, *T= Tutorial, *P= Practical, *O= Others, F2F*= Fac		e to Face						
		,							
	tify Special Requirement to Deliver the Course (e.g., softwar	e, nursery, computer lab, sir	nulation re	oom)	:				
Game Development Lab Main References:									
Main References: Moore, M.E. Game Design and Development: Introduction to the Game Industry .Pearson-Prentice Hall, 2006.									
Additional References:									
	ns. (2014). Fundamentals of Game Design (3rd ed.). New Ric								
Rous	Rouse, (2004). Game Design Theory and Practice(2nd ed.). USA: Wordware Publishing.								

Note:

Cells shaded light grey contain formulas / fixed values. Edit these formulas only if needed.