

UNIVERSITI TEKNOLOGI MARA

CGD553: SPECIAL EFFECTS IN GAME DESIGN

ourse Code						
	CGD553					
QF Credit	3					
ourse escription	Understanding the importanty of special effects in game design and how it differs from other techniques.					
ansferable Skills	Organizational, Teamwork, Technology Literacy					
eaching ethodologies	Lectures, Blended Learning, Self-directed Learning, Project-based Learning					
LO	 CLO1 Distinguish the context and the foundation concepts, algorithms, techniques and applications of visual special effects (C2, PO1) CLO2 Select visual special effects techniques appropriate for particular applications (P1, PO2) CLO3 Display visual special effects knowledge onto a team game project (A5, PO3) 					
re-Requisite ourses	No course recommendations					
opics						
1. Introduction to Visual Effects						
2. Designing Visual Effects 2.1) N/A						
3. Visual Effects Tools and Advanced Functions 3.1) N/A						
4. Animation in Game Engine 4.1) N/A						
5. Dynamic Particle Illusions 5.1) N/A						
6.1) N/A						
7. Overview to Visual Effects Programming Applications 7.1) N/A						
8. Geometric Representation 8.1) N/A						
9.1) N/A						
10. Language of Film/Animation 10.1) N/A						
11. Image Synthesis, Lighting and Rendering for Videogames						
12.1) N/A						
13. Ethics and Future of Visualization Industry 13.1) N/A						
14. Final Presentation 14.1) N/A						

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Start Year : 2019 Review Year : 2021

Assessment Breakdown	%
Continuous Assessment	100.00%

Details of							
Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO			
	Group Project	Develop visual special effect for a game.	50%	CLO3			
	Individual Project	Identify the factors that influence the sucessfulness of visual special effects.	20%	CLO1			
	Individual Project	Develop visual special effect for a selected application.	30%	CLO2			
Reading List	Recommended TextTrish & Chris Meyer 2010, Creating Motion Graphics with After Effects: Essential and Advanced Techniques, 5th Edition, Version CS5, 5th Ed., Routledge [ISBN: 978-024081415]Richard Yot 2019, • Light for Visual Artists: Understanding and using light in art and design, Richard Yot, Laurence King Publishing, 1st Ed., Laurence King Publishing [ISBN: 978-178627451]Chad Perkins 2012, The After Effects Illusionist: All the Effects in One Complete Guide, 2nd Ed., Routledge [ISBN: 978-02408189]Steve Wright 2011, Compositing Visual Effects, Second Edition: Essentials for the Aspiring Artist, Focal Press [ISBN: 978-024081781]Reference Book ResourcesLisa Fridsma, Brie Gyncild 2017, Brie Gyncild, 1 edition (January 1, 2017) Ed., Adobe Press [ISBN: 978-01346653] Jon Gress 2014, [digital] Visual Effects and Compositing, 1 						
Article/Paper List	This Course does not have any article/paper resources						
Other References	This Course does not have any other resources						