

UNIVERSITI TEKNOLOGI MARA

CTA543: DIGITAL VISUAL EFFECT

OTAG43. DIGITAL VISUAL LIT LOT					
Course Name (English)	DIGITAL VISUAL EFFECT APPROVED				
Course Code	CTA543				
MQF Credit	3				
Course Description	Students will learn the computer generated imagery of digital effects which include the brief history of visual effects, basic concept of gravity, dynamics, particles, reactor: rigid body and deformation: soft body, shader and rendering elements. These concepts are imperative in the making of fine 3D animation and realistic look elements such as water, wind, explosions, vibration, dust and smoke, motion blur and depth of field. This course works in collaboration with 3D Computer Animation: Intermediate course in the final project.				
Transferable Skills	Demonstrate ability to identify and articulate self skills, knowledge and understanding confidently and in a variety of contexts.				
	2. Demonstrate analytical skills using technology.				
	Demonstrate professional skills, knowledge and competencies.				
Teaching Methodologies	Lectures, Blended Learning, Computer Aided Learning				
CLO	CLO1 Adapt the concept of gravity and logic of the real world into the application of computer animation CLO2 Analyse the essential elements in computer generated imagery in order to produce a convincing outcome of digital filmmaking CLO3 Demonstrate the application of visual effects in relation to the basic film logic				
Pre-Requisite Courses	No course recommendations				
Topics					
1. Course Briefing & 1.1) Brief history of d	& Introduction igital visual effect				
2. Basic concept of 2.1) Gravity and visu	2. Basic concept of gravity 2.1) Gravity and visual effects				
3. Dynamics & Particles 3.1) Creating Dynamics & Particles 1					
4. Dynamics & Particles 4.1) Creating Dynamics & Particles 2					
5. Dynamics & Particles 5.1) Creating Dynamics & Particles 3					
6. Reactor 6.1) Rigid body 1					
7. Reactor 7.1) Rigid body 2					
8. Deformation 8.1) Soft body 1					
9. Deformation 9.1) Soft body 2					
10. Mental Ray Shad 10.1) Shaders & Mat	der & Materials erials				

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Start Year : 2014

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11. Lights, Sun, Lens Flare 11.1) Functions and technical aspects

12. Reflection, Motion Blur & Depth of Field 12.1) Functions and technical aspects

13. Final Project Presentation 1 13.1) Final Project Presentation 1

14. Final Project Presentation 2 14.1) Final Project Presentation 2

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Assessment Breakdown	%
Continuous Assessment	60.00%
Final Assessment	40.00%

Details of				
Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO
	Assignment	Individual Assignment 1	15%	CLO1, CLO2
	Assignment	Individual Assignment 2	15%	CLO1, CLO2
	Assignment	Group Assignment	30%	CLO1 , CLO2 , CLO3

Reading List	Reference Book Resources	Rickitt, Richard 2000, Special Effects: History & Technique, Watson-Guptill Publication Kerlow, Isaac V 2003, . The Art of 3D Computer Animation & Effects, John Wiley & Son Inc Brinkman, R 1999, The Art and Science of Digital Compositing, Ap Professional London McCarthy, Robert 1992, Secrets of Hollywood Special Effects, Focal Press USA Pinteau, Pascal & Hirsch, Laurel 2005, Special Effects: An Oral History, Harry N. Abrams. Publication USA		
Article/Paper List	This Course does not have any article/paper resources			
Other References	This Course does not have any other resources			

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