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Module Details				
Module Title	Introduction to Digital Visual Effects			
Module Code	GAV4009-B			
Academic Year	2021/2			
Credits	20			
School	Department of Media Design and Technology			
FHEQ Level	FHEQ Level 4			

Contact Hours				
Туре	Hours			
Online Lecture (Synchronous)	12			
Laboratories	24			
Directed Study	164			

Availability				
Occurrence	Location / Period			
BDA	University of Bradford / Semester 2			

Module Aims

effects so that students will start to be able to create realistic images and effects.

The module will cover the breadth of the visual effects pipeline. Utilising and evaluating moving image assets, students will create and render both dynamic and fluid simulations. The students will develop the necessary digital compositing techniques to bring all assets together

The module will explore the core techniques and tools of digital post production and visual

Outline Syllabus

Industry VFX Software such as: Adobe After Effects/Nuke X

- Side Effects Software: Houdini
- Photographic capture methods and lighting,
- Chroma Key Footage Acquisition,
- Fluid dynamics,
- Destruction pipelines,
- Volumetric simulations,
- lens effects, Rotoscoping,
- On Set data collection,
- Matchmoving and Tracking (2D/3D),
- Multi-pass rendering,
- Software-based chroma keying,
- 3D matte painting

Learning Outcomes				
Outcome Number	Description			
01	1.1 Demonstrate knowledge of the process of creating photorealistic images. 1.2 Understand the range of current post-production and visual effects techniques; 1.3 Deconstruct and choose appropriate tools in the creation of visual effects and post-production sequences.			
02	2.1 Create high quality photorealistic computer graphics using industry-standard visual effects software; 2.2 Use industry standard compositing software to combine rendered visual effects with live action footage.			
03	3.1 Complete a brief to a deadline; 3.2 Critically evaluate and reflect upon the application of academic studies to working practice;			

Learning, Teaching and Assessment Strategy

Delivery will be through a series of lectures and directed reading to provide the theoretical

background of visual effects techniques and technologies (LO 1.1, 1.2 1.3), and lab-based

tutorials to develop practical skills (LO 1.1, 1.2, 1.3, 2.1, 2.2).

The remainder of the time is spent on coursework (LO 3.1, 3.2). A project (LO 1.1, 1.2, 1.3, 2.1,

2.2) accompanied by a Showreel presentation (LO 3.1, 3.2) tests all learning outcomes.

Supplementary assessment is to repair deficiency in the original submission.

Mode of Assessment					
Туре	Method	Description	Weighting		
Summative	Presentation	Produce and deliver a presentation that clearly outlines the proposed approach and treatment of the brief. Time: 5 minut	10%		
Summative	Presentation	An in-class presentation to showcase your work (10Mins)	20%		
Summative	Coursework	A project to produce a photorealistic set of images incorporating computer generated effects (15 Mins)	70%		

Reading List

To access the reading list for this module, please visit https://bradford.rl.talis.com/index.html

Please note:

This module descriptor has been published in advance of the academic year to which it applies. Every effort has been made to ensure that the information is accurate at the time of publication, but minor changes may occur given the interval between publishing and commencement of teaching. Upon commencement of the module, students will receive a handbook with further detail about the module and any changes will be discussed and/or communicated at this point.

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