PART A: GENERAL INFORMATION

1.	Module Title		Introduction to 3D Graphics (EXCT4002)		
2.	School		Escape Studios		
3.	Level		4		
4.	Total Credits/ ECTS Value		15 credits (7.5 ECTS)		
5.	Total Synchronous Contact Hours		60		
6.	Programme(s) to which the Module Contributes		Technical Art for Games & VFX BSc (Hons)		
			Technical Art for Games & VFX (Integrated Masters) MSci (Hon)		
			Video Games Design BSc (Hons)		
			Video Games Design (Integrated Masters) MSci (Hon)		
			Character Creation for Animation, Games & VFX BSc (Hons)		
			Character Creation for Animation, Games & VFX (Integrated Masters) MSci (Hon)		
7.	Related Modules	Pre- requisites	None		
		Co-requisites	None		
		Post- requisites	None		
		Excluded Combinations	None		
8.	External Accrediting Body (If applicable)		N/A		
9.	Modes of Study		Full-time		
10.	Delivery Site(s)		Escape Studios, London		

PART B: MODULE LEARNING OUTCOMES

11. Learning Outcomes

On successfully completing the module students will be able to:

- 1. Demonstrate an understanding of the theory and role of 3D graphics in the creative industries
- 2. Evaluate tools, techniques and approaches for the creation of 3D assets
- 3. Select and use appropriate tools and techniques for creating 3D assets to meet specific objectives
- 4. Deliver a project to meet a specific set of objectives within defined time and resource constraints
- 5. Communicate effectively in a technical and creative context

PART C: RATIONALE AND DELIVERY

12. Synopsis of the Curriculum

- Computer Graphics 101 (File formats, USD, FBX, OBJ etc.)
- · Optimised modelling for real-time
- High to Low modelling and Baking
- Uving 0-1 space and UDIMS
- Texturing spaces 2d/3d world and object space
- 3d Formats
- 2d Formats
- Clean-up and Topology
- Intro to rendering
- How are teams constructed in Games and VFX
- Sculpting and modelling
- Retopology
- Decimation

13. Learning and Teaching Methods

The module follows the *Craft* module model, with practical tutor-lead sessions in studio being the primary mode of delivery. In these sessions students are introduced to theory in the context of exercises, building their knowledge and understanding alongside their intellectual and practical skills.

14. Contact Hours

Module Credit Value	Scheduled Learning Activities	Guided Independent Study	Total Hours	Learning
15 credits	Skills sessions (36 hours), Studio time (24 hours)	Preparation for classes, guided research, assignment preparation and development (90 hours)	150 hours	

15. Assessment Methods

Formative Assessment

Formative assessment will be provided throughout the module, both in terms of feedback on work in progress during the contact hours.

Summative Assessment

Assignment 1: Project (75%)

Approximately 3 - 4 weeks of development work

Assignment 2: Presentation (25%)

Approximately 10-15 minutes

Re-sits

Students who fail this Module will be permitted to submit revised assessment components in accordance with the Academic Regulations.

16. <u>Map of Module Learning Outcomes to Learning, Teaching and Assessment</u> Methods

Learning outcome	1	2	3	4	5
Learning/ teaching					
Skills Sessions	Х	Х	X		
Studio Time	Х	Х	Х		
Self-Directed				Х	Х
Assessment method					
Project	Х	Х	Χ	Х	Х
Presentation			Х		Х

17. Indicative Reading List

This is an indicative list, correct at the time of publication. Reading lists will be published at least annually.

- Computer Graphics: Principles and Practice 3rd Edition, John Hughes, Andries van Dam, Morgan McGuire, Addison-Wesley Professional (2013)
- Fundamentals of Computer Graphics: International Student Edition 5th Edition, Steve Marschner, Peter Shirley, A K Peters/CRC Press (2021)
- Autodesk Maya 2023 Basics Guide, Kelly L. Murdock, SDC Publications, (2022)
- Electronic
- Animation World Network http://www.awn.com/vfxworld
- The Art of VFX http://www.artofvfx.com/
- Online Training Courses http://www.fxguide.com/
- Maya Learning Channel https://www.youtube.com/mayahowtos
- Arvid Schneider Senior Look Dev Artist (Texturing and Lighting) https://www.youtube.com/@arvidurs
- Michael Pavlovich Zbrush Tutorials https://www.youtube.com/@MichaelPavlovich

18. Inclusive Module Design

We recognise and have incorporated the expectations of current equality legislation, by ensuring that the module is as accessible as possible by design. Additional alternative arrangements for students with Inclusive Learning Plans (ILPs)/declared disabilities will be made on an individual basis, in consultation with relevant policies and support services. Furthermore, the module design has sought to embed inclusive curriculum content.

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