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## Faculty of Engineering, Environment and Computing 5031CEM 3D Modelling



### Assignment Brief

Module Title	Individual	Cohort	Module Code
3D Modelling		(Sept/Jan/May)	5031CEM
Coursework Title (e.g. CWK1) Coursework 1			Hand out date: 13/09/2021
Lecturer Michael Richards			Due date and time: Date: 10/12/2021 Online: 18:00:00
Estimated Time (hrs): 100	Coursework type:		Credit value assessed
Word Limit*: 1500 - 2000	Practical project with written report		20
Submission arrangement online via Aula: Submit via assessment submission link			
File types and method of recording: Written report and all project files			
Mark and Feedback date (DD/MM/YY): 17/01/2021			
Mark and Feedback method (e.g. in lecture, electronic via Aula): Via Aula			

#### Module Learning Outcomes Assessed:

1. Understand the workflow for creating visual digital artefacts.
2. Create a range of 3D models and environments using a variety of appropriate techniques.
3. Create and implement a variety of materials and textures within a 3D scene.
4. Be familiar with the requirements and limitations of current 3D engines and technologies, allowing the students to produce content for interactive multimedia applications and computer games.

#### Task and Mark distribution:

1. For this assignment, you are required to create two 3D models for a game/film or animation. You are required to document the entire creative process, including initial sketches, mood boards and any research you conduct. You must also demonstrate an understanding of mesh optimisation and evidence any implementation of this in your written report.
2. For **one** of your models from task 1, complete all of the following:
  - a. UV unwrap the model
  - b. Create custom textures / materials using an appropriate method
  - c. Render a basic animation showing your model

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For this submission, you must include all of the following:

- d. Your 3D files (e.g., Blender or 3DsMax files)
- e. Each model exported individually
- f. Image of each model rendered
- g. Written report that includes:
  - i. Concept generation (research/mood boards / sketches)
  - ii. Evidence of 3D modelling
  - iii. 3D mesh optimisation
  - iv. Visual evidence of your modelling workflow
  - v. UV Unwrap process
  - vi. Texture creation workflow
  - vii. Render setup
  - viii. Critical reflection

**Notes:**

1. You are expected to use the [Coventry University APA](#) style for referencing. For support and advice on this students can contact [Centre for Academic Writing \(CAW\)](#).
2. Please notify your registry course support team and module leader for disability support.
3. Any student requiring an extension or deferral should follow the university process as outlined [here](#).
4. The University cannot take responsibility for any coursework lost or corrupted on disks, laptops or personal computer. Students should therefore regularly back-up any work and are advised to save it on the University system.
5. If there are technical or performance issues that prevent submitting coursework through the online coursework submission system on the day of a coursework deadline, an appropriate extension to the coursework submission deadline will be agreed. This extension will normally be 24 hours or the next working day if the deadline falls on a Friday or over the weekend period. This will be communicated via your Module Leader.
6. You are encouraged to check the originality of your work by using the draft Turnitin links on Aula.
7. Collusion between students (where sections of your work are similar to the work submitted by other students in this or previous module cohorts) is taken extremely seriously and will be reported to the academic conduct panel. This applies to both courseworks and exam answers.
8. A marked difference between your writing style, knowledge and skill level demonstrated in class discussion, any test conditions and that demonstrated in a coursework assignment may result in you having to undertake a Viva Voce in order to prove the coursework assignment is entirely your own work.
9. If you make use of the services of a proof reader in your work you must keep your original version and make it available as a demonstration of your written efforts. Also, please read the university [Proof Reading Policy](#).
10. You must not submit work for assessment that you have already submitted (partially or in full), either for your current course or for another qualification of this university, with the exception of resits, where for the coursework, you maybe asked to rework and improve a previous attempt.

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This requirement will be specifically detailed in your assignment brief or specific course or module information. Where earlier work by you is citable, i.e. it has already been published/submitted, you must reference it clearly. Identical pieces of work submitted concurrently may also be considered to be self-plagiarism.



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