1. **Title of the module:** 3D Foundation – PRSN7010
2. **School or partner institution which will be responsible for management of the module:** Escape Studios, Pearson College London
3. **The level of the module (e.g. Level 4, Level 5, Level 6 or Level 7):** Level 7
4. **The number of credits and the ECTS value which the module represents:** 30 credits (15 ECTS)
5. **Which term(s) the module is to be taught in (or other teaching pattern):** Autumn or Spring
6. **Pre or co-requisites:** None
7. **The programmes of study to which the module contributes:** MA Visual Effects Production (3D)
8. **The intended subject specific learning outcomes**
   On successfully completing the module students will be able to...
   
   8.1 demonstrate a systematic knowledge and understanding of the theory and concepts of 3D modelling techniques, physical material properties, texturing and photorealistic rendering in a visual effects production environment.
   
   8.2 critically evaluate and select production tools and techniques to create photorealistic textures and highly accurate 3D assets for use in visual effects production pipeline.
   
   8.3 create, texture, light and render highly accurate photorealistic 3D objects within a visual effects production environment.
   
   8.4 seamlessly composite photo-real 3D rendered objects with a still image.

9. **The intended generic learning outcomes.**
   On successfully completing the module students will be able to:
   
   9.1 manage time and resources to complete tasks to a given deadline
   
   9.2 communicate creative and technical information to a variety of audiences.

10. **A synopsis of the curriculum**
    The foundations and theories of 3D computer based graphics. Different modelling techniques and their application. UV mapping techniques and camera projections. Physics of material properties with respect to computer graphic shaders. Photo-real texture painting and 3D surfacing techniques. Light transport and modern photo-realistic rendering techniques.

11. **Reading List (Indicative list, current at time of publication. Reading lists will be published annually)**
    Introducing Autodesk Maya (Autodesk Official Training Guides), Dariush Derakhshani, John Wiley & Sons

12. **Learning and Teaching methods**
    Students undertake direct instruction from tutors in theory and practice in the context of the discipline, supported by directed reading and study. Practice and practical work in a studio
environment is supervised by tutors and supported by studio assistants. Additional materials and support is provided through the VLE.

Tutor-led studio sessions: 135 hours
Studio assistant supported practice: 45 hours
Directed study: 120 hours

13. **Assessment methods.**

   **Coursework 50%**
   
   This is a practical project involving 3D rendered elements composited into a still image. (LO 8.1, 8.2, 8.3, 8.4, 9.1)
   
   Production logbook (3000 words) 40% (LO 8.1, 8.2, 9.1)
   
   Individual Presentation (15 minutes) 10% (LO 8.1, 8.2, 8.3, 8.4, 9.2)

14. **Map of Module Learning Outcomes (sections 8 & 9) to Learning and Teaching Methods (section 12) and methods of Assessment (section 13)**

<table>
<thead>
<tr>
<th>Module learning outcome</th>
<th>8.1</th>
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<tr>
<td>Learning/ teaching method</td>
<td>Hours allocated</td>
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<td>Directed Study</td>
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15. The Collaborative Partner recognises and has embedded the expectations of current disability equality legislation, and supports students with a declared disability or special educational need in its teaching. Within this module we will make reasonable adjustments wherever necessary, including additional or substitute materials, teaching modes or assessment methods for students who have declared and discussed their learning support needs. Arrangements for students with declared disabilities will be made on an individual basis, in consultation with the Collaborative Partner’s disability/dyslexia student support service, and specialist support will be provided where needed.

16. **Campus(es) or Centre(s) where module will be delivered:**

   Escape Studios.

17. **Partner College/Validated Institution:**

   Escape Studios, Pearson College London

18. **University School responsible for the programme:**

   Engineering & Digital Arts

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Revision record – all revisions must be recorded in the grid and full details of the change retained in the appropriate committee records.

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<tr>
<th>Date approved</th>
<th>Major/minor revision</th>
<th>Start date of the delivery of revised version</th>
<th>Section revised</th>
<th>Impacts PLOs (Q6&amp;7 cover sheet)</th>
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