

**Course Code:**

PIHV104

**Session:**

2017/18

**1. Course Title:**

Digital Documentation of Cultural Heritage

**2. Date of Production/Revision:**

1 April 2014

**3. Level:**

SCQF 11

**4. Credits:**

15

**5. Lead School/Board of Studies:**

School of Simulation and Visualisation

**6. Course Contact:**

Dr Stuart Jeffrey

**7. Course Aims:**

- Describe the various methods and technologies used for digital documentation, their capabilities and limitations.
- Provide an understanding of when to utilise the different methods and technologies.
- Encourage analysis and interpretation of dataset from multidisciplinary perspectives
- Introduce risk assessment and risk management involved with digital documentation on and off-site, including backup procedures and the principles of digital archiving, resource discovery, and metadata
- Provide an understanding of the heritage and conservation context and encourage critical reflection on the purpose of digital documentation in these contexts

**8. Intended Learning Outcomes of Course:**

By the end of this course students will be able to:

- Demonstrate a critical understanding and knowledge of the various digital documentation methods that are available and when they should be used

- Demonstrate a critical understanding of the purposes of digital documentation and their role in the wider context of cultural heritage practice.
- Identify and justify, when presented with an example heritage structure, site or object, an approach to its digital documentation and methods to employ.
- Apply good working practice for backup procedures, digital archiving, resource discovery, and metadata creation.
- Analyse and interpret the dataset from multidisciplinary perspectives

### 9. Indicative Content:

Covering issues such as:

- Introducing Digital Documentation technologies and techniques and how the various technologies work
- The purposes of digitally documenting heritage structures and objects
- Virtual Reality in Archaeology and Historical Research
- Background and history to heritage visualisation
- Basic data acquisition workflow
- Working practise for backup and archiving data captured on-site
- An introduction to risk management and risk assessments
- An introduction to IPR and financial issues
- An introduction to visualisation methods and interpretation options
- Analysis and interpretation of dataset from multidisciplinary perspectives
- Reproduction techniques and Rapid Prototyping in cultural heritage
- Multimedia, multilingual, data management and archiving in cultural heritage

### 10. Description of Summative Assessment:

No.	Assessment Method	Description of Assessment Method	Weight %	Submission week (assignments) or length (exam)
1	Coursework	Essay	50	Week 9 (indicative)
2	Exam	Formal examination	50	2 Hours

#### 10.1 Please describe the Summative Assessment arrangements:

Assessment takes place at the end of Autumn semester. Students are assessed on their ability to demonstrate a critical understanding of the various digital documentation methods, analyse and interpret the dataset from any of the following perspectives/disciplines: computer science, history, geography, culture study, archaeology, architecture, the built environment, art and design, and tourist management, etc.

**11. Formative Assessment:****11.1 Please describe the Formative Assessment arrangements:****12. Collaborative:**Yes No **12.1 Teaching Institutions:****13. Requirements of Entry:**

None

**14. Co-requisites:**

None

**15. Associated Programmes:**

MSc Visualisation (International heritage)

**16. When Taught:**

Autumn semester

**17. Timetable:**

Timetable will be available in the induction week.

**18. Available to Visiting Students:**Yes No **19. Distance Learning:**Yes No **20. Placement:**Yes No

<b>21. Learning and Teaching Methods:</b>		
<b>Method</b>	<b>Formal Contact Hours</b>	<b>Notional Learning Hours</b> (Including formal contact hours)
Lecture	10	50
Studio		
Seminar/Presentation		
Tutorial		
Workshop	18	90
Laboratory work		
Project work		
Professional Practice		
E-Learning / Distance Learning		
Placement		
Examination	2	10
Essay		
Private Study	Not Applicable	
Other (please specify below)		
<b>TOTAL</b>	<b>30</b>	<b>150</b>

<b>22. Description of "Other" Teaching and Learning Methods:</b>

<b>23. Additional Relevant Information:</b>

<b>24. Indicative Bibliography:</b>
<p>Journals:</p> <p>Journal of Cultural Heritage, Elsevier, 1296-2074  ACM Journal on Computing and Cultural Heritage, ACM, ISSN 1556-4673, EISSN 1556-4711  International Journal of Heritage in the Digital Era, Multi-Science Publishing Company, ISSN 2047-4970</p> <p>Books:</p> <p>Proceedings of the Annual International Conference on Cultural Heritage (EuroMed), Springer  Digital Imaging for Cultural Heritage Preservation: Analysis, Restoration, and Reconstruction of Ancient Artworks. Stanco, F. Battiato, S. and Gallo, G. (Eds.), CRC Press, 2011. ISBN 978-1439821732</p>