

**Reframing Heritage Education in Egypt (ReHeED)**

**Theoretical and hands-on Workshop course (WP2.3) & Training (WP3.2) on:**

**“*The implementation of ICT documentation techniques for***

***Heritage Educational Purposes”***

**Workshop venue at Alexandria (Greek Community Center)**

**Date: 28 March to 3 April 2022**

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| **3.2 Workshop Schedule** |
| **Day** | **Hour** | **Module** | **Teaching Hours** | **Content** |
| **Day 1****Monday 28/3** | **11:00** | **Meeting at the Greek Community of Alexandria.**Note1: *It will be good for the participants to bring a laptop and have already installed the programs Faro Scene, Agisoft Metashape, Reality Capture. Otherwise, we will give them, at the beginning of the Workshop.*Note 2: A good photographic camera will be needed by each participant for HQ 3d models. A cellphone can be also be used, although with limited quality. |
| **11:30-****13:30** | **Module 1:** **Cultural Heritage and ICT. Introduction to documentation and dissemination techniques.** | **2** | Introduction: Direct and Indirect (ICT) survey techniques for the documentation of Cultural Heritages.  | Place: seminar venue |
| The Significance of Digital Documentation for Cultural Heritage.  | Place: seminar venue |
| Introduction to **Terrestrial Laser Scanning** techniques for cultural heritage documentation and data processing: case studies.  | Place: seminar venue |
| Introduction to **Digital Photogrammetry** for cultural heritage documentation and data processing: case studies.  | Place: seminar venue |
| **13:30-14:30** | **Greek Cemetery of Alexandria** | **1** | Visit to the Greek Cemetery of Alexandria, recognition of the area and organize the in-situ trainings: groups formation for TLS laser scanning and groups for digital photogrammetry, ~2-3 participants). |
| **Day 2****Tuesday 29/3** | **10:00-****14:00** | **Module 2****2a: practical training on 3D Terrestrial Laser Scanning** **2b: practical training on 3D digital photogrammetry**Place: Greek Cemetery | **4** | Workshop on groups:In situ tutorial on **3d TLS** & proper equipment usage,Practical training with Laser Scan instrument settings, targets and data acquisition. | Workshop on groups:In situ tutorial of **digital photogrammetry** & proper e equipment usage.Practical application, photo shooting of monuments, targets and data acquisition**.**  |
| **16:00-****18:00** | **Module 2c:****Software for processing raw scan data from TLS** | **2** | Presentation of software and workflow for **Laser Scanner** data.Tutorial for the elaboration of obtained laser data. |  Place: seminar venue |
| **Day 3****Wednesday** **30/3** | **10:00-****14:00**  | **Module 3:****Module 3a:****Digital photogrammetry**Place: Greek Cemetery | **4** | Workshop on groups:In situ tutorial on **3d TLS** & proper equipment usage,Practical training with Laser Scan instrument settings, targets and data acquisition. | Workshop on groups:In situ tutorial of **digital photogrammetry** & proper e equipment usage, photo shooting of monuments, targets & data acquisition**.** |
| **16:00-****18:00** | **Module 3b:** **practical training on digital photogrammetry**  | **2** | Presentation of software and workflow for **Digital Photogrammetry** data.Tutorial for the elaboration of obtained photographic data. | Place: seminar venue |
|  | **Module 3c:** | **2** | Application of digital photogrammetry  |  |
| **Day 4****Thursday 31/3** | **10:00-****14:00** | **Module 2 and Module 3 (continue):****practical training on 3D TLS &** **Digital photogrammetry** | **4** | In situ application of data collection:**TLS****Digital Photogrammetry****Aerial photography** | Place: Greek Cemetery |
| **16:00-****18:00** | **Module 2c and Module 3c:****Post Processing data for TLS & digital photogrammetry data.** | **2** | Evaluation of Software applications,Combination of **3D TLS** and **digital photogrammetry**: the advantages of both methodsReal time processing of collected data | Place: seminar venue |
| **Day 5****Friday 01/4** | **10:00-****14:00** | **Module 2a and Module 3b continue:****practical training on 3D TLS &** **Digital photogrammetry** | **4** | In situ application of data collection:**TLS****Digital Photogrammetry****Aerial photography** | Place: Greek Cemetary |
| **16:00-****18:00** | **Module 2c and Module 3c:****Post Processing data for TLS & digital photogrammetry**  | **2** | Software application,Combination of 3D TLS and digital photogrammetry: the advantages of both methodsReal time processing of collected data | Place: seminar venue |
| **Day 6****Saturday 02/4** | **10:00-****14:00** | **Module 4: Evaluation of 3D models** | **4****2** | Evaluation of 3D models & Improvement/Enhancement of 3D models | Place: seminar venue |
| **16:00-****18:00** | **Module 5:**  **Gamification in Education Introduction** | Introduction to gamification: definitions & basic principles, Gamification & Gameful learningThe implementation of gamification in education: indicative case studies  | Place: seminar venue |

PS.: CHANGES TO THE PROGRAM ARE VERY PROBABLE ACCORDING TO THE EVOLUTION OF THE LABORATORY