**DAILY ASSESSMENT FORMAT**

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| **Date:** | **01/07/2020** | **Name:** | **Lavanya B** |
| **Course:** | **IIRS** | **USN:** | **4al17ec043** |
| **Topic:** | **Digital photogrammetry** | **Semester & Section:** | **6th A** |
| **Github Repository:** | **Lavanya-B** |  |  |

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| **FORENOON SESSION DETAILS** |
| **Image of session** |
| **Report**  **Digital photogrammetry**  **Digital photogrammetry is a well-established technique for acquiring dense 3D geometric information for real-world objects from stereoscopic image overlap and has been shown to have extensive applications in a variety of fields.**  **Aerial photogrammetry refers to the collection and processing of imagery captured from an aerial or orbital vehicle. Close-Range photogrammetry (CRP) refers to the collection of photography from the ground or some lesser distance than traditional aerial photogrammetry and is becoming increasing popular and accessible due to new, easy to use software and digital cameras. Non-metric, off-the-shelf digital cameras can be used along with relatively inexpensive, or in some cases free, open-source software, to extract and process highly accurate and detailed 3D models of real-world objects.**  **Types of digital photogrammetry**   1. **Close-range** 2. **Aerial**   **Photogrammetry for 3D Imagery**  **A valuable and novel application of photogrammetry is the creation of 3D models. This is sometimes also known as stereo-photogrammetry. This involves the combination of two imagery captured of the same object but from slightly varying angles of having overlap of 60%. Digital photogrammetry helps in producing DEM, DTM , DSM generation, stereo compilation, topographic and Planimetric feature extraction(2D and 3D), Ortho generation and True Ortho generation etc. These models provide the on-looker with 3D pictographic evidence of the object on the ground.**  **Photogrammetry can also be used in combination with other technologies such as Light detection and Ranging (LiDAR) to create more precise information for city planners, mining experts, geologists, archaeologists, engineers and to anyone else who has a vested interest in visual map of an area.**  **A valuable and novel application of photogrammetry is the creation of 3D models. This is sometimes also known as stereo-photogrammetry. This involves the combination of two imagery captured of the same object but from slightly varying angles of having overlap of 60%. Digital photogrammetry helps in producing DEM, DTM , DSM generation, stereo compilation, topographic and Planimetric feature extraction(2D and 3D), Ortho generation and True Ortho generation etc. These models provide the on-looker with 3D pictographic evidence of the object on the ground.**  **Photogrammetry can also be used in combination with other technologies such as Light detection and Ranging (LiDAR) to create more precise information for city planners, mining experts, geologists, archaeologists, engineers and to anyone else who has a vested interest in visual map of an area.** |