


## DAILY ASSESSMENT FORMAT

<b>Date:</b>	<b>01-07-2020</b>	<b>Name:</b>	<b>BINDUSHRI</b>
<b>Course:</b>	<b>Satellite photogrammetry and its application</b>	<b>USN:</b>	<b>4AL17EC011</b>
<b>Topic:</b>	<b>Introduction to the satellite photogrammetry</b>		<b>6<sup>th</sup> A</b>
<b>Github Repository:</b>	<b>Bindushri</b>		

## FORENOON SESSION DETAILS



Live Session

Offline Session

Study Material

Attendance Status

Course Guidelines

Feedback

Dear participant, to mark your attendance properly, please do not frequently refresh this page or do not navigate

Presenter: Dr. Hina Pande

**INDIAN INSTITUTE OF REMOTE SENSING, DEHRADUN**

**Hardware components of a Digital Photogrammetric workflow**

- i. Enabling stereo-viewing and
- ii. Measuring capability
- iii. Workstation with appropriate processing and storage capabilities :

Processor  
Memory –RAM & Disk Space,  
Graphics Displays  
2D, Perspective, and Anaglyph Display  
Stereo Display Graphics Cards,  
Stereo Display Monitors  
Peripherals

A digital photogrammetric system is defined by ISPRS as:

Hardware and software designed to derive photogrammetric products from digital imagery using manual and automated techniques.

Ask Question

SHAIK BASHA

My Regd No:2020610149119;Sk.Ashik Basha 3:58 AM

## Branches of photogrammetry:

- Ground based
- Uav/drone based

- Aerial photogrammetry
- Satellite photogrammetry

### **Hardware components of a digital photogrammetry:**

- Enabling stereo-viewing&
- Measuring capability
- Workstation with appropriate processing & storage capabilities i.e processor, memory, graphic display.

### **Software requirement for a digital photogrammetric:**

- Handling image display
- Measurement
- Recording pixel co-ordinates
- Transformation
- Image processing functions
- Digital rectification
- Visualization

### **NADIR-OFF NADIR:**

Nadir: point directly below the camera.

### **Trio-stereo Imagery:**

Acquisitions reveal elevation that would otherwise remain hidden is steep.

## **Stereo Coverage:**

Two possible configuration:

- Across-track
- Along-track

## **General mathematical model:**

- Rigorous or physical
- RFM
- 3D polynomial model
- 3D affine model

## **Triangulation:**

Provides a model for calculating the spatial relationship b/w a satellite sensor and the ground co-ordinate system for eachline data.

