GYP-509: Interpretation of Aerial Photographs and Satellite Images

Course learning outcomes:

CO1. Identify the difference between aerial photographs and satellite imagery.
CO2. Analyze methods interpreting aerial photographs and satellite imagery.
CO3. Analyze aerial photograph with stereoscope.
CO4. Analyze satellite imaginary and produce different thematic maps.

Exercise No.	Title of the Exercise (Total 52 Hrs.)
1	Study of marginal information of aerial photographs.
2	Types of Aerial Photographs.
3	Elements of Aerial Photo interpretation.
4	Stereo vision test and stereoscopic viewing through stereoscopes.
5	Determination of scale of vertical photographs
6	Study of aerial photographs for mapping physical features.
7	Study of aerial photographs for mapping cultural features.
8	Manual Preparation of Land Use and Land cover maps from aerial photographs.
9	Satellite image data sources.
10	Collecting major satellite images (Landsat, Sentinel 2A, Carto DEM)
11	Interpretation of Satellite Imagery.
12	Study of satellite images for mapping physical features.
13	Study of satellite images for mapping cultural features.
14	Comparison of True Color, False Color and Panchromatic images.
15	Preparation of LULC maps using the satellite imagery.

References:

1. Paul R. Wolf (1999): Elements of Photogrammetry, Mc. Grawhill, International Book Company, New Delhi.
2. Averte and GL. Berrin (2001): Fundamentals of Remote Sensing and Aerial Photo interpretation, McMillan, New York.
3. Singh and Sharma (2004): Introduction of Remote Sensing, Rawath Publications, New Delhi
4. George Joseph (2002): Fundamentals of Remote Sensing, University press Pvt. Ltd. Hyderabad-29
5. A Verte and G.L. Berrin (2001): Fundamentals of Remote Sensing and Aerial Photo Interpretation, Mc. Millan, New York.