



Faculty of Earth Sciences



**Structural Geology & Remote Sensing
Department**



The Geological Society
Accredited degree courses

INTRODUCTION TO PHOTOGEOLOGY AND GEOMORPHOLOGY

Course Name	Course ID	Prerequisite
<i>INTRODUCTION TO PHOTOGEOLOGY AND GEOMORPHOLOGY</i>	<i>ESR 231</i>	<i>EMR 201</i>

Course Description

Basic concepts of aerial photographs, types and specification of aerial photographs. Basic fundamentals of landforms. Summary on the processes that shape the earth's surface. Fundamentals of photogeologic interpretation. Lithologic interpretation, structural interpretation. Basics of geologic mapping using aerial photographs.

Course Objectives

This course aims at study of:

1. Basics of aerial photographs.
2. Geometric characteristics of aerial photographs.
3. Stereoscopic and pseudoscopic visions and factors affecting them.
4. Parallax in stereoscopic vision.
5. Recognition of structural and geomorphologic features on aerial photographs.
6. Construction of photogeologic unit maps.

General References for the Course: (Books/Journals...etc.)

1. *Aerial Photographs in Field Geology*. by Lattmann, L.H., and Ray, R.G., 1965. New York.
2. *Aerophotography and Aerosurveying*, by Badgley, J.W., 1947. New York.
3. *Mapping from Aerial Photographs*, by Burnside, C.D., 1979. New York: John Wiley & Sons.

List of URLs for this Course

- http://www.univie.ac.at/Luftbildarchiv/archiv/aa_phot.htm

Course Outcome

The student is able to know the following:

1. Student can know the geometric characteristics of aerial photos.
2. Student can know the stereoscopic vision.
3. Student can know the Parallax
4. Student can recognize the structural and geomorphic features on aerial photos.