

# **Field Geophysics – GPH 393**

**Course title and code: Field Geophysics – GPH 393**

**Level/year at which this course is offered: Level 7- 4<sup>th</sup> year**

**Pre-requisites for this course (if any): 211GPH, 381Geo, 320Geo**

## **The main purposes of the course:**

- *To acquire the basic field skills and techniques in geophysics (classification and principles),*
- *To acquire the basic field skills to deal with geophysical instruments (e.g. magnetic, electrical, seismic..).*
- *to learn the importance of accuracy in data acquisition ,*
- *To be responsible for their own field works in exploration geophysics,*
- *To develop the skills and expertise needed*
- *To be able to interpret the geologic structures on field observations and geologic maps.*
- *to integrate all the data sets and present the results into a report*

## **List of Topics**

- Defining and mapping the rock outcrops and present structures
- Basics of the field survey and Data acquisition, reporting
- Magnetic field survey, data analysis and interpretation, reporting
- Seismic field survey, data analysis and interpretation, reporting
- Electric and GPR field survey, data analysis and interpretation, reporting