PHY7202: EXPLORATION GEOPHYSICS

1. Course Name: Exploration Geophysics

2. Course Code: PHY7202

3. Credit Units: 3

4. Course Description:

This course discusses the different methods of exploration of petroleum and other minerals.

5. Course Objectives:

At the end of the course, the students should be able to:

- Use mathematical methods in exploration techniques.
- Apply different methods of exploration.

6. Course Outline:

Content	Hours
Advanced Mathematical study of the geophysical methods of exploration for petroleum, minerals, geothermal and water.	20
Methods- seismic, gravity magnetic, electrical, electromagnetic and nuclear techniques.	15
Marine geophysics and geophysical well logging techniques	10
Total	45

7. Mode of Delivery:

This course will consist of lecture sessions and there will also be data analysis using theories leant.

8. References:

- 1. C.M.R Fowler. The Solid Earth: Introduction to Global Geophysics. Cambridge Univ. Press (Textbook)
- 2. P.V. Sharma. Geophysical Methods in Geology. Elsivier Sci. Pub. Co.