

## **PROGRAMME SPECIFIC OUTCOME OF GEOLOGY**

**PSO 1:** Course consists of four units which deals with constitution and history of the earth crust. Different physical processes which bring about changes in the crust, about its topography and geochemical principles. It gives general idea of the earth for beginners.

**PSO 2:** Course consists of two units comprise of principles of Stratigraphy and Indian Stratigraphy and it speaks about past and present history of the earth.

**PSO 3:** course contain structural geology and tectonics which gives idea about the arrangement , attitude and relative position of rock masses of the earth crust and its concern with the architecture of the earth. Determination of composition of earth and different laws of thermodynamics and optical property of minerals.

**PSO 4:** This course contains igneous, sedimentary, metamorphic rocks, about their mineralogy, texture, structure and their origin, field occurrence and their relationship. by knowing this one can draw certain inference about the pressure and temperature that prevail when the minerals are form.

**PSO 5 :** This part contain four papers including palaeontology, economic geology, fossil fuel, surveying and field mapping. One can able to know by studying palaeontology about different facts i.e. evolution, migration of life forms through ages and the basic theory of palaeontology. Economic geology part provides an intimate knowledge of minerals, having economic value, their economic use and national mineral policy of India. Another part of this course gives adequate knowledge to the undergraduate students about fundamental and various methods of surveying and their application in different field. As this subject is field oriented one that is why knowledge has been given about the sampling, field data on map and to prepare geological map.

**PSO 6:** It contain four papers and they gives concept of engineering properties of rocks and soil and different methods of mining (surface & underground), geologixcal, geochemical, geophysical exploration, principles, drilling methods, relation between people and physical environment, different geological hazards, use of remote sensing technique for earth natural resources, geological mapping, studies of soil, vegetation survey and rural and urban land use. Hydrogeology part of this course related to geological factor of underground and surface water.

## **COURSE OUTCOME OF GEOLOGY**

### **COURSE CODE: GEOM 101**

CO1: Covers the general knowledge of origin of earth.

CO2: It reveals different physical process about the changes in the crust or surface.

CO3: This part reflects features of the earth i.e. topography.

CO4: It gives idea about the geochemical aspects of the earth.

### **COURSE CODE: GEOM 201**

CO1:It highlights the history of the earth with the help of geological records available in rock beds.

CO2: This part covers geology of various rock unit of Indian subcontinent.

### **COURSE CODE: GEOM 301**

CO1: It gives idea about the structural aspects of geology.

CO2: It highlights about the architecture of earth.

### **COURSE CODE: GEOM 303**

CO1: Knowledge prevail individual elements of the earth and its composition and structure.

CO2: Covers different minerals and its physical property.

CO3: Gives idea about the thermodynamic properties and its laws, atomic structure of minerals.

CO4: Behaviour of light on different types of minerals.

### **COURSE CODE: GEOM 401**

CO1: Gives adequate knowledge about the igneous rocks.

### **COURSE CODE: GEOM 403**

CO1: It highlights different processes of formation of sedimentary rocks and characters.

CO2: It highlights different changes of sedimentary, metamorphic as well as igneous rocks.

### **COURSE CODE: GEOM 501**

CO1: Gives knowledge about the formation of fossil and to study the history of earth.

**COURSE CODE: GEOM 503**

CO1: Gives idea about formation of mineral deposits.

CO2: Reflects classification of different mineral deposits in earth.

CO3: Knowledge of mineral deposits in different parts of India.

CO4: Idea about the national mineral policy and strategic minerals.

**COURSE CODE: GEOM 505**

CO1: Idea of formation of coal.

CO2: It helps to know about the crude oil and natural gas.

**COURSE CODE: GEOM 507**

CO1: To make aware about the basic concept of surveying.

CO2: As the subject geology is field oriented one so this part gives entire knowledge about field study.

**COURSE CODE: GEOM 601**

CO1: Knowledge about the mining and sampling of ore deposits.

CO2: Basic concept of engineering aspect used in different area of geology.

**COURSE CODE: GEOM 603**

CO1: Geological methods of exploration of ore

CO2: Idea about geochemical exploration.

**COURSE CODE: GEOM 605**

CO1: Knowledge about the environmental aspects and hazards in geology.

CO2: Gives idea about use of remote sensing in the field of geological study.

**COURSE CODE: GEOM 607**

CO1: It highlights about the hydrological study of ground water.

CO2: It helps in the study of different oceanic events.