

SKILL DEVELOPMENT COURSES

2019-2024

Department of Earth Sciences



List of Skill development Courses:

Course Code	Course Title	Brief Justification
GL20101-CR	Structural Geology	The student will gain knowledge of the geometry of the rock structures, understand the mechanism of the evolution of rock structures and its application in the field.
GL20103-CR	Crystallography & Mineralogy	This course will help the students to identify minerals in thin hand specimen and thin sections an art and science essential for fundamental research in Geology in mineral identification and exploration
GL20302-CR	Hydrogeology	The student will understand the hydrological processes acting on and below the surface of earth, necessary for water exploration and management
GL20303-CR	Remote Sensing and GIS	After completion of this course, the student will be well versed with the world of remote sensing and the applications and interpretation of data related to geosciences, resource management.
GL20405- DCE	Engineering Geology	The students will learn the geological aspects of engineering projects, like tunnelling, road building, dam construction etc. This course enhances the ability of students to use geological knowledge for the selection of suitable sites for various engineering projects.
GL20401-CR	Exploration & Mining Geology	The course envisages to expose the students to the topics such as geology in mining industry, methods of exploration, Sampling Principle, Methods, estimation of reserves, Ore Dressing and Beneficiation

GL20306 -DCE	Geophysics	The student will acquire skills to use various geophysical methods for exploration of various subsurface mineral resources. The geophysical techniques include seismic, gravity, magnetic and electrical resistivity methods and their various applications.
GL20307-DCE	Ore Geology	The students will get familiarized about the processes involved in the formation of various ore minerals. The students will be appraised about, for example the origin, migration and accumulation of petroleum; it will also provide basic skills in prospecting, drilling and logging operation in oil exploration. Besides, the students will also learn about the process involved in the formation of various deposits.
GL 20105-DCE	Field Training	This course will impart the field knowledge of identifying various geological structures, rock types, mineral deposits, mapping skills, etc, necessary for mineral exploration, disaster management, environmental protection, etc