

COURSE OUTCOME (DEPARTMENT OF GEOLOGY)

Sl. No	Semester	Course Name and Code	Course Outcomes	Unit/Chapter	Bloom Taxonomy level
1	First	General Geology and Structural Geology GLG-RC 1016	This course provides as a foundation of Geology by providing an understanding about the origin and evolution of the Earth. This course helps to know about various components of the Earth and also its internal structure. This course will help to give a basic idea of rocks available on Earth and also to understand the role played by internal and external agents on transforming the physical features of the Earth. This will help the students to recognize and describe the different geological structures along with basic ideas of how to map them in the field.	General Geology	Remember, Understand, Analyse
				Structural Geology	Remember, Understand, Analyse
				Practical	Remember, Understand, Apply
2	Second	Crystallography and Mineralogy GLG-RC-2016	This course will help to understand the basic concepts needed to identify a crystal. The learner is expected to be able to describe a crystal structure in terms of atom positions, unit cells and crystal symmetry. This unit will help to identify the common rock forming minerals and provide knowledge on the structural, chemical and physical and optical characteristics of minerals.	Crystallography	Remember, Understand, Analyse
				Mineralogy	Remember, Understand, Analyse
				Optical Mineralogy	Remember, Understand, Analyse
				Practical	Remember, Understand, Apply
3	Third	Petrology GLG-RC-3016	This course will help to understand how rocks melt and crystallize. This unit will enhance the knowledge of how a rock undergoes changes when exposed to various physicochemical environment inside as well as on the surface of the earth. This will help to identify igneous, sedimentary and metamorphic rocks and their different structures, textures and mode of occurrence.	Igneous Petrology	Remember, Understand, Analyse
				Sedimentary Petrology	Remember, Understand, Analyse
				Metamorphic Petrology	Remember, Understand, Analyse
				Practical	Remember, Understand, Apply

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4	Fourth	Stratigraphy and Palaeontology GLG-RC-4016	This course will help to study the subdivision of sequence of rock strata in the Indian subcontinent. This unit will help to correlate sequence of rock with rock strata elsewhere. Study of Palaeontology will help to describe the world's past biodiversity and how the living organisms adapted to changing environment. This will help to know about fossils and their mode of preservations. Study of fossils will help to develop new ideas about evolution and ecology.	Principles of Stratigraphy	Remember, Understand, Analyse
				Indian Stratigraphy	Remember, Understand, Analyse
				Palaeontology	Remember, Understand, Analyse
				Practical	Remember, Understand, Apply
5	Fifth	Economic Geology and Hydrogeology GLG-RE-5016	This course will help to guide the exploration for mineral resources and determine which deposits are economically worthwhile. This unit will help to understand the various processes of formation of economic minerals, their mode of occurrence, origin and uses. Study about Hydrogeology will help to gain knowledge about subsurface soil and rock permeability and groundwater movement. Groundwater is an essential part of human life and this course will help to understand the occurrence of groundwater below the surface.	Economic Geology and Prospecting	Remember, Understand, Analyse
				Hydrogeology	Remember, Understand, Analyse
				Practical	Remember, Understand, Apply
6	Sixth	Elements of Applied Geology GLG-RE-6016	This course will help to understand the role of geology in the Civil Engineering Structures such as Dams, Tunnels, Roads and Bridges. This unit will help to understand interaction of humans with geologic environment.	Elements of Applied Geology	Remember, Understand, Analyse
				Practical	Remember, Understand, Apply