4 th Semester RMI	L4C001	Geology-II	L-T-P 3-0-0	3 CREDITS
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Module-I (08 Hours)

Classification of Minerals, Physical, chemical and mineralogical characteristics of ore and minerals, structure, texture. Mineral associations, etc.

Module-II (08 Hours)

Types of structure- massive, pocket etc. Textures- disseminated, clustered, etc. Relationship between origin and structure and texture.

Module- III (08 Hours)

Petrology: Igneous, sedimentary deposits, metamorphic deposits, origin, mineralization, host rock and minerals etc.

Module-IV (08 Hours)

Crystallography: Types of crystal structure, axial arrangement of minerals, symmetry elements present in normal class of cubic, tetragonal, hexagonal, orthorhombic, monoclinic and triclinic systems.

Module-V (08 Hours)

Relevance and application in mineral and coal processing with a few examples.

Books:

- Text Book of Geology P.K.Mukherjee
- Text Book of Geology- G.B. Mahapatra
- Parbin Singh. Geology for Engineers, IBH Publications, N. Delhi. 1991.
- Arthur Holemess, Principles of Physical Geology, Thomas Nelson and Sons, USA, 1964.
- Ford, W.E. Dana's Textbook of Minerology (4th edition), Wiley Eastern Ltd., N. Delhi, 1989.
- Element of Petrology-Tyrell
- Structural Geology- Marland P. Billings
- Physical Geology Sainder Singh