

Core Course-V: Theory - Structural Geology and Economic Geology

Block - I Structural Geology

Unit-1 Introduction to Structural Geology

Unit-2 Primary Structures

Unit-3 Unconformities and Joints

Block - II Structures

Unit-4 Folds

Unit-5 Faults & Minor structures

Unit-6 Field Geology

Block-III Economic Geology-Ore formations

Unit-7 Introduction to Economic Geology

Unit-8 Magmatic Processes

Unit-9 Secondary, Organic and Metamorphic processes

Block-IV Description of Mineral deposits

Unit-10 Metallic minerals

Unit-11 Non-metallic minerals

Unit-12 Fuels and Radio- active minerals

Core Course-V Practical- Economic Geology and Structural Geology

Block - I Structural Geology

Unit -1 Topographic and Geological maps

Unit-2 Mapping of Conformable Beds, folds and Faults

Unit-3 Geological problems- Thickness of Beds, Dip of Beds

Unit-4 Borehole Problems

Block-I1 Economic geology

Unit- 5 Identification of Ferrous and non-ferrous minerals

Unit - 6 - Identification of metallic Minerals- Haematite, Magnetite, Pyrolusite, Psilomelane, Chromite, Azurite, Malachite, Chalcopyrite, Pyrite, Galena, Sphalerite, Bauxite, Ilmanite.

Unit - 7 -Identification of Non- Metallic Minerals- Flourite, Graphite, Sillimanite, Corundum, Muscovite, Asbestos, Gypsum, Barytes.

Unit - 8 - Identification of Other Minerals- Beryl, Talc, Kyanite, Coal, Magnesite, calcite, Apatite.