

5th Semester	RML5D002	Mineral Legislation & Safety	L-T-P 3-0-0	3 Credits
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Module-I:**(8 hours)**

Classifications of indicated, estimated, proved, minable and other types of mineral reserves. Relationships between cut-off grade, average grade, run off mine, concentrate and reject grades. Role of beneficiation in conservation.

Module-II:**(8 hours)**

Overview of evolution of legislation for conservation of minerals and collection of revenue on minerals and mineral products. Powers of the Parliament, Central Government and State Governments to make laws related to minerals and fossil fuels.

Module-III:**(8 hours)**

Mines and Minerals (Development and Regulation) Act. Mineral Concession Rules, Mining Lease Rules and other subordinate legislations under MM(RD) Act. Legal notices, returns, and reports for construction and operation of mineral and coal beneficiation plants. Roles of Ministries of Mines. Indian Bureau of Mines and other Government agencies. Indian laws related to off shore mining and beneficiation.

Module-IV:**(8 hours)**

Overview of safety and environment laws including Factories Act, Mines Act, Forest and Environment Act. Overview of rules and regulations for safety of persons in beneficiation plants.

Module-V:**(8 hours)**

Standing orders and procedures laid down for prevention of accidents. Standard operating procedures in case of accidents including disasters. Responsibilities of officials for inspection and maintenance of safety equipment as well as periodic safety drills. Structures, equipment and processes for prevention of environmental damage due to beneficiation.

Books:

- [1] Bryon Nelson Cooper, Mineral Conservation, 1964
- [2] S A Quazi and Navaid Shabir Quazi, Natural Resources Conservation and Environment Management, A P H Publishing Corporation