

5th Semester	RML5D006	Processing Plant Practices	L-T-P 3-0-0	3 Credits
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Module I: (8 Hours)

Indian resources of Hematite, Magnetite, BHQ, BHJ, goethitic and lateritic iron ores, Beneficiation characteristics of these minerals and their end uses. Flowsheets, plant parameters and specific auxiliaries used for processing of above ores

Module II: (10 Hours)

Indian resources of Bauxite, Chromite and Industrial Minerals, Gold, Silver and Platinum group minerals. Beneficiation characteristics of these minerals and their end uses. Flowsheets, plant parameters and specific auxiliaries used for processing of above ores

Module III: (8 Hours)

Indian resources of Lead-Zinc and Copper ores, Manganese Ores. Beneficiation characteristics of these minerals and their end uses. Flowsheets, plant parameters and specific auxiliaries used for processing of above ores

Module IV: (8 Hours)

Indian resources of Placer Minerals. Beneficiation characteristics of these minerals and their end uses. Flowsheets, plant parameters and specific auxiliaries used for processing of above ores

Module V: (6 Hours)

Indian resources of Coal. Beneficiation characteristics of coal and its end use. Flowsheets, plant parameters and specific auxiliaries used for processing of coal.

Books:

- [1] Wills B.A. and Napier-Munn T., Mineral Processing Technology, Elsevier Science & Technology Books
- [2] Gaudin A.M., Principles of Mineral Dressing, McGraw Hill Book Company, 1971
- [3] Jain, S.K., Ore Processing, Oxford – IBH Publishing, 1984