Under Ground Coal Mining

Module-I:

5Th Semester

Selection of mining methods, classification of method of coal mining. Pillar Mining Method: Panel system of working, incubation, period, Relation between depth of deposit & size of pillar, percentage of extraction, Man- power calculation, Productivity calculation, Application

Module-II:

Development & extraction by B&P Method of mining, Depillaring

Module-III:

Long wall Mining Method: Classification, Application on Development and extraction, face mechanization, Power support.

Module- IV:

Horizon Mining, Contiguous Mining. Application & Layout

Module-V:

Mining equipment and production machine used below ground. Stowing and Filling Methods, gathering and transportation arrangements, stowing plants and layout. Provision of CMR 1957.

Books:

[1] Principles and Practices of Modern Coal Mining, R. D. Singh, New Age International, New Delhi, 1997

[2] Underground Winning of Coal, T. N. Singh, Oxford & IBH, New Delhi, 1992

[3] Modern Coal Mining Technology, S. K. Das, Lovely Prakashan, Dhanbad, 1992

[4] Elements of Mining Technology, Volume-2, D. J. Deshmukh, Denett & Company, 2016

[5] Coal Mining Practice, I. C. F. Statham, Caxton Eastern Agencies, Calcutta, Reprint, 1964

(10 Hours)

(10 Hours)

(8 Hours)

(8 Hours)

(10 Hours)