

**UNIT - I****Chapter 1 : Introduction to Power Plants 1-1 to 1-18****Syllabus :**

- 1.1 World and national scenario of demand and supply of energy.
- 1.2 Introduction to power plants: their importance and types.
- 1.3 Hydroelectric power plant : Classification, General arrangement, operating principle, advantages and limitations, Maintenance.
- 1.4 Diesel power plant : Introduction, components, advantages and limitations, Diesel generating set, Maintenance.

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- 2.3 Fluidized bed combustion boilers (FBC): principle, need, types, various arrangement, control system and advantages over other boiler systems.
- 2.4 Comparison of various types of boilers.
- 2.5 Indian Boiler Regulation Act.
- 2.6 Maintenance procedure of major components of high pressure and FBC boilers.

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Gas Turbine Power Plants

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➤ **Appendix A - Solved MSBTE Question Paper of Winter 2019A-1 to A-3**