

7th Semester	RML7D005	Clean Coal Technology	L-T-P 3-0-0	3 Credits
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Module-I:**(10 hours)**

Introduction to clean coal technology: Modern precombustion coal cleaning methods including biological and chemical cleaning methods.

Module-II:**(10 hours)**

Clean coal combustion technology: AFBC, Circulating Fluidized Bed Combustion, Slagging combustion. Pressurized Fluidized Bed Combustion. Sox and NOx control strategies during combustion.

Module-III:**(10 hours)**

Post Combustion Technology for control of SOx, NOx and Particulate Matter Coal gasification combined cycle method. SPM and its control methods and equipment UCG, CBM, CWM/COM

Module-IV:**(06 hours)**

Integrated coal gasification combined cycle and coal combustion combine cycle methods.

Books:

- [1 CleanCoalTechnologiesforPowerGenerationbyP.JayaranaReddy,Taylor&Francis
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- [2 CleanCoal(RenewableEnergyResearch,DevelopmentandPolicies)byKlaesG.Douwe),NovaScie
] ncePublishersInc