

SYLLABUS :-

Thermal environment and psychrometry; Heat stress estimation; Mine head load sources and analysis; Geothermal heat transfer; Design of air cooling systems; Assessment, control and physiological effects of mine dust; Mechanics of air flow distribution and control; Natural ventilation; Theory of fans, fan types, characteristics and selection; Fan laws, fan drives, and installation; Ventilation surveys, instruments, and ventilation planning; Auxiliary ventilation. Mine gases: properties, physiological effects, occurrence, detection, and monitoring; Degasification of coal seams; Sampling and analysis of mine atmosphere.