

SYLLABUS :-

Principles and machinery involved in cleaning and grading; Separation efficiency of grain cleaners and graders; Hydrothermal treatment and conditioning of grains; Principles and equipments for milling of cereals, pulses and oil seeds; Psychrometry: Humidification and dehumidification systems and their design; Principles of grain drying: Equilibrium moisture content and water activity; Constant rate and falling rate period drying; Simultaneous Heat and Mass Transfer in Single Grain and Grains in Bulk: Thin layer and deep bed drying; Grain dryers and Mathematical modeling of crop drying systems; Principles and practices of grain storage: Types and functional requirements of storage structures, handling and conveying equipment design.