

SYLLABUS :-

Introduction: Types of farm tractors. Trends in tractor design. Engine

Performance: Testing and evaluation of IC engines. Performance characteristics of SI and CI engines. Governors and their controls. Tractor Transmission:

Tractor clutches and brakes. Power transmission system and final drives.

Traction Theory: Different types of traction devices. Mechanics of traction and towed wheels. Evaluating the performance of traction devices. Tractor Chassis:

Mechanics of tractor chassis. Lateral and longitudinal stability. Weight

transfer. Steering system. Hitch Systems: Three point linkage geometry. Free link and restrained link mechanisms. Automatic position and draft control

systems used in modern tractors. Tractor Test and Performance: Drawbar

performance of tractors. Tractor power cost estimation. Test standards. Tractor

ergonomics: Human factors in the design of tractor seat and different controls.