ST. JOSEPH’S COLLEGE FOR WOMEN (AUTONOMOUS) VISAKHAPATNAM

III SEMESTER  **AGRICULTURE AND RURAL DEVELOPMENT** TIME:30HRS

AGRD 251P (1) **FARM MACHINERY & POWER** MARKS:50

w.e.f 2024-2025 (23AK Batch) **PRACTICAL SYLLABUS**

**OBJECTIVES:**

* To study the difference between EC engine and constructional details of IC engine.
* To study about Air cleaning and maintenance
* To study about secondary tillage implements and its constructional details

**Course Outcomes:**

**CO1:** Explain Internal combustion engine, Different components and their functions

**CO2**: learn Ignition and power transmission system of I.C engine

**CO3:** Explain Sowing equipment, Seed cum fertilizer drills and sprayers

**PRACTICALS:**

1. Showing the difference between EC engine and constructional details of IC. **(3 hrs)**

2. Dismantling the IC engine and explaining the functional aspects of components. **(4hrs)**

3. Air cleaning and maintenance - Engine cooling and maintenance. (**4hrs)**

4. Familiarizing with the lubrication and fuel supply system of an engine. **(4rs)**

5. Familiarizing with clutch – Gearbox - Differential and final drive along with brake steering hydraulic control of tractor. **(3hrs)**

6. Familiarization with primary tillage implements like M. B. Plough, disc plough and its adjustments. **(3hrs)**

7. Study of secondary tillage implements and its constructional details -Emphasis on disc harrow, spike tooth harrow, blade harrow, rotavator, power harrow. **(3hrs**

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