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

# III SEMESTER **AGRICULTURE AND RURAL DEVELOPMENT** Time: 5hrs/week

AENG 251P (1)  **FARM MACHINERY AND POWER** Marks:50

## w.e.f 22AJ\_2022-2023 (Admitted batch) PRACTICAL SYLLABUS

**OBJECTIVES:**

* To study about 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:** Students will understand Internal combustion engine, Different components and their functions

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

**CO3:** Students will understand Sowing equipment, Seed cum fertilizer drills

**CO4:** Students will understand Comparison between diesel and petrol engine

**CO5:** Students will understand Types of sprayers, constructional features of knapsack sprayer, hand compression sprayer, foot sprayer, rocker sprayer and power sprayer, care and maintenance of sprayers.

**PRACTICALS:**

1. Showing the difference between EC engine and constructional details of IC engine.

2. Dismantling the IC engine and explaining the functional aspects of components.

3. Air cleaning and maintenance - Engine cooling and maintenance.

4. Familiarizing with lubrication and fuel supply system of an engine.

5. Familiarizing with clutch – Gearbox - Differential and final drive along with brake steering hydraulic control of tractor.

6. Familiarization with primary tillage implements like M. B. Plough, disc plough and its adjustments.

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

8. Familiarization with seed metering mechanism and its calibration.

9. Study on planters and transplanters.

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