



### **Agricultural Engineering**

The course provides the necessary information and methodology to: 1. Introduce students to the fundamental principles of engineering in agriculture. 2. Make students understand the concepts of agricultural farm machines and their components. 3. Make students capable in understanding the function and the maintenance in farm machines.

The course includes the following major units:

1. Basic knowledge and instruction guides to the systems and parts consisting farm tractor (engine-power transmission-driving and stopping system-movement parts of tractor). Maintenance for farm tractor and calculation in economics and work rate for agricultural machines.
2. Description and explanations in function and adjustments that can be made in agricultural machines such as: ploughs, fertilizer distributions, drill machines, sprayers, cutting equipment, and harvesters.