



## Module Description/Course Syllabi

Study Program : Bachelor Program (S1)

Faculty of Agriculture

University of Andalas

### 1. **Course number and name**

PIT62108 Fertilizer and Fertility Management

### 2. **Credits and contact hours/Number of ECTS credits allocated**

3 credits (2 classes, 1 practicum)

### 3. **Instructors and course coordinator**

1. Dr., Gusmini, SP. MP
1. Dr.Ir., Teguh Budi Prasetyo, MS,
2. Prof.Dr.Ir., Herviyanti, MS,
3. Dr.Ir., Gusnidar, MP
4. Dr.rer.nat.Ir. Syafrimen Yasin, MS. MSc
5. Prof.Dr.Ir., Hermansah, MS. MSc,
6. Nofrita Sandi, , SP. MP
7. Dr., Mimien Harianti, SP. MP

### 4. **Text book, title, outhor, and year**

1. Comersial Fertilizers (Colling, 1956)
2. Soil fertility and fertilizers (Tisdale and Nelson, 1975)
3. Fertilizing for Maximum Yield (Cook)
4. Diktat of Fertilizer and Fertilization (Nurhajati Hakim et al)
5. Bulletins, Journals, leaflets, etc

### 5. **Specific course information**

#### **A. Brief description of the content of the course (catalog description)**

The general purpose of this Fertilizer and Fertilization Technology course is for students to know about how important fertilization is to maintain and increase agricultural production in a sustainable manner, and for that they must know the properties and characteristics of various types of fertilizers that can be used, and be able to determine fertilizer doses and carry out fertilization for various agricultural crops in particular and plants in general.

#### **B. Level of course unit (according to EQF: first cycle Bachelor, second cycle Master)**

First Cycle Bachelor

<b>C. Semester when the course unit is delivered</b>
Even Semester
<b>D. Mode of delivery (face-to-face, distance learning)</b>
Face to face
<b>6. Intended Learning Outcomes (CPL)</b>
ILO-2: Able to identify, analyze, and solve land problems in improving productivity and quality of agricultural products for sustainable agricultural development Q2.3 Measure soil fertility and its relationship to crop production and the environment.
ILO-5: Able to keep up with the latest knowledge and apply it to support appropriate learning strategies P5.2 Using software technology, lab and field equipment for accurate data analysis.
<b>7. Course Learning Outcomes (CPMK) ex. The student will be able to explain the significance of current research about a particular topic.</b>
1. Measure soil fertility levels and their relationship to crop production and the environment
2. Using software technology, lab and field equipment for accurate data analysis
<b>8. Learning and teaching methods</b>
Cooperative Learning and Problem Based Learning
<b>9. Language of instruction</b>
Indonesian
<b>10. Assessment methods and criteria</b>
<b>Summative Assessment :</b>
<ol style="list-style-type: none"> <li>1. Assignment</li> <li>2. UTS</li> <li>3. UAS</li> <li>4. Internship</li> </ol>

**Formative Assessment:**

1. Thumb up and thumb down
2. Minutes paper