



## Module Description/Course Syllabi

Study Program : S1 Undergraduate Program  
Faculty of Agriculture  
University of Andalas

### 1. Course number and name

PIT612 06 Wetland Management

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

2 credits

### 3. Instructors and course coordinator

Prof.Dr.Ir. Herviyanti, MS  
Dr. Ir. Teguh Budi Prasetyo, MS  
Dr. Mimien Harianti, SP. MP

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

1. Brady NC and Weil RR 2002: The Nature and Properties of Soils, 10<sup>th</sup> ed, Macmillan New York., pp. 960.
2. Kawaguchi K and Kyuma K 2005: Paddy soil in tropical Asia. Their material, nature and fertility. The Univ. Press of Hawaii, Honolulu, pp. 258.
3. Kyuma K 2004: Paddy Soils Science. Kyoto University Press and Trans Pacific Press. Melbourne, pp. 280.
4. Ma JF and Takahashi E 2002: Soil, Fertilizer, and Plant Silicon Research in Japan. Elsevier Science. Amsterdam. pp, 281.
5. Indonesian Peatland Association. 1993. Proceedings of the National Peatland Seminar II. Jakarta. 405 pages.
6. Kyuma, K., P. Vijamsorn and A. Zakaria. 1992. Coastal lowland Ecosystem In Southern Thailand and Malaysia. Kyoto. 416 pp.
7. Noor, M. 2001. Peatland Agriculture. Canisius. Yogyakarta. 174 pages.
8. Setiadi, B. 2016. Problems and Prospects for Peat Utilization. BPPT-HSF. Jakarta. 114 pages.

### 5. Specific course information

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

Students will be able to conduct peatland analysis correctly based on soil properties so that they can determine peatland management appropriately and sustainably.

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

First Cycle Bachelor

#### *C. Semester when the course unit is delivered*

Even Semester
<b><i>D. Mode of delivery (face-to-face, distance learning)</i></b>
Face to face
<b><i>6. Intended Learning Outcomes (CPL)</i></b>
ILO 1: Able to apply basic agricultural sciences widely in overcoming agricultural problems for sustainable agricultural development (P) PI 1: Analyzing agricultural problems with a soil science approach and agricultural sciences in general
ILO 2: Able to identify, analyze, and solve land problems in improving productivity and quality of agricultural products for sustainable agricultural development PI 4: Determining the rate of soil degradation and its causative factors
<b><i>7. Course Learning Outcomes (CPMK) ex. The student will be able to explain the significance of current research about a particular topic.</i></b>
1.1 Analyze agricultural problems with a soil science approach and agricultural sciences in general
2.4 Determining the degree of soil degradation and its causative factors
<b><i>8. Learning and teaching methods</i></b>
Cooperative Learning and Problem Based Learning
<b><i>9. Language of instruction</i></b>
English
<b><i>10. Assessment methods and criteria</i></b>
<b>Summative Assessment :</b> 1. Assignment 2. UTS 3. UAS 4. Internship
<b>Formative Assessment:</b> 1. Minutes paper