Module Description/Course Syllabi

Study Program : Bachelor Program (S1)
Faculty of Agriculture
University of Andalas

1. *Course number and name*

PIT62203 Soil Mineralogy

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

3 credits

3. *Instructors and course coordinator*

1. Dr.rer.nat.Ir. Syafrimen Yasin, MS, M.Sc
2. Prof. Dr. Ir. Dian Fiantis, M.Sc

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

1. Allen, B. L and D. S. Fanning. (1983). Composition and Soil Genesis. P. 141-192 in L. P. Wilding et al (Eds). Pedogenesis and soil taxonomi. i. concept and interaction. Elsevier Sci. Publ. Co., Amsterdam.
2. Allen, b. l. and b. f. Hajek. 1989. Mineral occurrence in soil environment. P. 199-278. In J. B. Weed (Eds). Minerals in Soil Environments. Soil Sci. Of Amer., Madison, USA
3. Munir, M. 1996. Geology and Soil Mineragy. Jaya Library. Jakarta. 290 p.
4. Suharyadi. 2004. Introduction to Engineering Geology. Publishing Bureau of Civil Engineering Department UGM. Jogyakarta. 134 p.
5. Perkins, D. 1998. Mineralogy. Prentice Hall.484 hal.
6. Klein, C. 2004. The 22nd edition of the Manual of Mineral Science. John Wiley & Sons, Inc. 641 hal.

5. *Specific course information*

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

After attending this course, students will be able to understand the process of formation of primary, secondary and oxide minerals. The relationship between the mineral content in the soil with soil fertility and the type of soil formed. Students can explainhow to identify minerals.

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

D. Mode of delivery (face-to-face, distance learning)

Face to face

6. *Intended Learning Outcomes (CPL)*

ILO-3: Able to use various methods for soil and crop analysis appropriately in land resource management
P3.1 Using laboratory equipment for soil analysis and crops with SOPs.

ILO-4: Able to apply their professional responsibilities to make decisions in land and environmental management

P4.1 Assessing soil properties and features
7. *Course Learning Outcomes (CPMK)* *ex. The student will be able to explain the significance of current research about a particular topic.*
1. Using laboratory equipment for soil analysis and follow-up plants with SOPs
2. Assess soil properties and characteristics
8. Learning and teaching methods
Cooperative Learning
9. Language of instruction
Indonesian
10. Assessment methods and criteria
Summative Assessment : 1. Assignment 2. UTS 3. UAS 4. Internship **Formative Assessment**: 1. Thumb up and thumb down 2. Minutes paper