Module Description/Course Syllabi

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

1. *Course number and name*

PIT612 07 Dryland Management

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

2 credits

3. *Instructors and course coordinator*

Dr.Ir. Adrinal, MS
Dr. Gusmini, SP. MP
Prof.Dr.Ir. Aprisal, MP
Dr.rer.nat.Ir. Syafrimen Yasin, MS.MSc

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

1. Brady, N.C and R.R. Weil 1999. The nature and properties of soils. Prentice Hall Inc.
2. IBSRAM, 1995. ASIALAND: The management of sloping lands for sustainable agriculture in Asia. Phase 2, 1992-1994. Network Document No. 12. IBSRAM, Bangkok
3. Puslittanak, 1993. Proceedings of the use of alang-alang land for sustainable farming. Bogor
4. Puslitannak, 2000. Indonesia's land resources and management. Balitbangtan. Department of Agriculture.
5. Soil Survey Staff 1998. Key to soil taxonomy. 8th edition, NRCS. Washington DC.
6. Unger, P.W (eds). 1994. Managing Agricultural residues. Lewis Publishers. 447 pp.
7. Principles of the Ecosystem Approach (IUCN Commission on Ecosystem Management,2004)

5. Specific course information

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

To determine land management, land/soil quality, dry land, lowland dryland (LKDR), soil properties and their distribution, potential and constraints of LKDR, development and management of LKDR, LKDR management technology, highland dryland (LKDT), soil properties and distribution, potential and constraints of LKDT, development and management of LKDT, management technology. LKDT, dryland management innovation strategy in improving environmental quality, rain harvesting technology and water conservation in dry land

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 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
7. Course Learning Outcomes (CPMK) *ex. The student will be able to explain the significance of current research about a particular topic.*
1. Analyze agricultural problems with a soil science approach and agricultural sciences in general
2. Determining the degree of soil degradation and its causative factors
8. Learning and teaching methods
Cooperative Learning and Case Method Learning
1. Language of instruction
English
2. 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