Module Description/Course Syllabi

Study Program : Bachelor Program (S1)

Faculty of Agriculture

University of Andalas

1. *Course number and name*

PIN621 05 Experimental Design

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

3 credits

3. *Instructors and course coordinator*

1. Dr. Ir. Gusnidar, MP
2. Dr. Ir. Agustian
3. Prof. Dr. Ir. Herviyanti, MS
4. Prof. Yulnafatmawita M.Sc

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

1. Steel and Torric. 1980. Principles and Procedures of Statistics. Biometrical Approach 2 Ed Tosho print Co.Ltd. Tokyo, Japan.
2. Sutjihno, 1986. Introduction to the design of agricultural research experiments. Balitbang Pertanian
3. Syahni, R. 1992. Experiment Design. Diktat, Unand Research Center. Pading
4. Gaspersz, V. 1994. Experimental Design Method. Armico, Bandung 5. Gomez, K. A. And A. A.
5. Gomez. 1995. Statistical procedures for agricultural research. Translation by Syamsuddin, E. and J. S. Baharsyah. UI Press. Jakarta, 698 pages.
6. Stad 8 software, and other software that supports.

5. *Specific course information*

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

The Experiment Design course aims to provide students with the ability to design an experiment in carrying out a research, especially in completing the final project and being able to interpret the data obtained so as to make it easier to draw conclusions from the research that has been carried out, especially in writing the final project.

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) 1.3. Apply basic sciences and soil science in solving land and environmental problems for agricultural development
ILO-5: Able to keep up with the latest knowledge and apply it to support appropriate learning strategies Q5.1 Review the literature and the novelty of technological knowledge on soil and environmental science
7. *Course Learning Outcomes (CPMK)* *ex. The student will be able to explain the significance of current research about a particular topic.*
1. Apply basic sciences and soil science in solving land and environmental problems for agricultural development
2. Review the literature and the novelty of technological knowledge about soil and environmental science
8. Learning and teaching methods
Cooperative Learning and Problem Based 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