Module Description/Course Syllabi

Study Program : Bachelor Program (S1)

Faculty of Agriculture

University of Andalas

1. *Course number and name*

PIT621 03 Agricultural Hydrology

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

3 credits (2 classes, 1 practicum)

3. *Instructors and course coordinator*

1. Prof.Dr.Ir., Aprisal,MP,
2. Prof.Dr.Ir., Yulnafatmawita, MSc
3. Dr.Ir., Gusnidar, MP
4. Dr.Ir., Teguh Budi Prasetyo, MS
5. Prof.Dr.Ir., Hermansah, MS. MSc
6. Dr.Ir., Adrinal, MS,
7. Prof.Dr.Ir., Azwar Rashidin, MSc

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

1. Chay Asdak. 1995. Hydrology and Watershed Management. Gadjah Mada Univ. Press. Yogyakarta.
2. Suyono Sosrosudarsono and Kensaku Takeda. 1999. Hydrology for irrigation. PT. Pradnya Paramita. Jakarta.
3. Handoko. 1993. Basic Climatology: Foundations of understanding the physics of the atmosphere and climatic elements. Department of Geography and Meteorology FMIPA-IPB. Bogor.
4. Handoko. 1994. Basic Preparation and Application of Computer Simulation Models for Agriculture. Department of Geography and Meteorology FMIPA-IPB. Bogor.
5. Robiyanto H.S. and Rahmad H.P. 1998. Hydrology and Control of Water Amounts. Hydrology and Water Quantity Control (Martin P.W). Water and Land Management Research Center. Unsri. Palembang.
6. Soewarno. 2000. Operational Hydrology. Volume one. PT Citra Aditya Bakti Bandung
7. International Institute for land Reclamation and Improvement. 1974. Drainage Principles and Applications: Survey and investigations (vol. III). Wageningen. Netherlands.
8. Abujamin A.N and Sobri E. 1999. Water Balance Analysis and Cropping Patterns.

FMIPA-IPB. Bogor
5. ***Specific course information***
A. ***Brief description of the content of the course (catalog description)***
After completing this course, students are expected to be able to know the understanding, processes that occur and factors that affect the components of the hydrological cycle and students are able to calculate / analyze these components. And students know water source conservation techniques and water management at the farm level.
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) P1.3. Apply basic sciences and soil science in solving land and environmental problems for agricultural development
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
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