UNIVERSITAS ANDALAS	Module Description/Course Syllabi
	Study Program : S1 Undergraduate Program
ALL ALLANA DAL	Faculty of Agriculture
	University of Andalas
1. Course number and name   PIT611 04 Soil and Water Conservation	
2. Credits and contact hours/Number of ECTS credits allocated	
3 credits (2 classes, 1 practicum)	
3. Instructors and course coordinator	
Ir. Irwan Darfis,, MP,	
Prof.Dr.Ir. Aprisal, MP,	
Zuldadan Naspendra, SP. MSi	
Ir. Junaidi, MP,	
Nofrita Sandi, SP. MP	
Dr.Ir. Adrinal, MS	
4. Text book, title, outhor, and year	
1. Arsyad, S. 2000. Soil and water conservation. IPB Press. Bogor	
2. Barrow. C. J. 1991. Land degradation. Departement and breakdown of terrestrial	
environments. Cambridge University Press. Cambridge	
3. Rusman B. 2004. Soil and Water Conservation. Unand Press.	
4. Morgan, R. P. C. 1979. Soil Erosion. Longman Group Ltd., New York.	
5. Singht, Vijay.P. 1992. Elementary Hidrology. Department of Civil Engineering. Lousiana State University. New Jesey.	
5. Specific course information	
A. Brief description of the content of the course (catalog description)	
Able to know for the basic understanding of soil and water conservation, Able to know the	
methods, soil and water conservation, Able to explain the main functions of the soil, Able to	
explain land degradation, Able to know global climate change and its effects on soil and water,	
Able to know the process of soil erosion, Able to know soil and water conservation problems,	
Able to know and predict erosion, Able to know and calculate surface flow, Able to calculate	
erosion using erosion estimation models, Able to know conservation methods, Able to know	
about conservation planning and able to compile conservation planning, Able to know the	
influence of development on soil and water conservation	
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 2: Analyzing agricultural problems with a soil science approach and agricultural sciences in	
general	
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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

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

PI 3 : Determining alternative solutions to land problems

PI 4: Using regulatory concepts and principles in land utilization and arrangement

PI 5 : Preparing regional development planning

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

3. Determine alternative solutions to land problems

- 4. Using regulatory concepts and principles in land utilization and structuring
- 5. Preparing regional development planning

8. Learning and teaching methods

Cooperative Learning and Problem Based Learning

9. Language of instruction

English

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