	Module Description/Course Syllabi
	Study Program : S1 Undergraduate Program
	Faculty of Agriculture
	University of Andalas

1. *Course number and name*
KIM 611 05 Chemistry

2. *Credits and contact hours/Number of ECTS credits allocated*
3 credits (2 classes, 1 practice)

3.   *Instructors and course coordinator*
Dr. Tio Putra Wendari
Norman Ferdinal MSi
Emil Salim, MSi.

4.   *Text book, title, outhor, and year*
1.   Tan K.H. 1988. Principle of Soil Chemistry, ed. III, Marcel Dekker, N.Y   2.   Tan,K.H. 2001. Environmental Soil Science, ed. II, Marcel Dekker, N.Y, Basel   3.   Anwar and Sudadi. 2012. Soil Chemistry Introduction, IPB Press.

5.   *Specific course information*
A. *Brief description of the content of the course (catalog description)*
This course studies chemical calculations, reaction coefficients, solutions and concentrations, atomic theory, redox and E.M.F., chemical bonds and chemical balance, acids and bases, collogative properties, chemical kinetics and radioactivity. Organic chemistry.

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 : Explain agricultural sciences related to soil science.

7. Course Learning Outcomes (CPMK) *ex. The student will be able to explain the significance of current research about a particular topic.*
1. Explain agricultural sciences related to soil science.

8. Learning and teaching methods
Cooperative learning

9. Language of instruction
English

10. Assessment methods and criteria
Summative Assessment : Tasks : 5% Quiz : 5 % Mid Semester : 25% Final Semester : 25% Practikum :30% Attendance : 5% **Formative Assessment**: Minutes paper