	Module Description/Course Syllabi Study Program : Bachelor Program (S1) Faculty of Agriculture University of Andalas

1. *Course number and name*

PIT621 04 Geodesy and Cartography

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

3 credits (2 classes, 1 practicum)

3. *Instructors and course coordinator*

1. Dr. Ir Juniarti, SP. MP
2. Ir., Junaidi, MP,
3. Ir. Irwan Darfis, MP
4. Zuldadan Naspendra , SP. MS

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

1. Basic Cartographic Soil Measurement Science (Sariyono and Nursa'ban, 2010)
2. Darrin Lah · 2021. Survey and Mapping Techniques
3. Bulletins, Journals, Seminar proceedings, latest leaflets, etc. (many authors)
4. Arc GIS 10.00 instructions for use.
5. Halim Setan · 2006. Pengenalan Ilmu Ukur Tanah

5. *Specific course information*

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

Students are able to understand the understanding and concepts of Soil Measurement and Cartography, practice and make maps manually and digitally using Arc GIS 10.00 software. Students are also able to zoom in and out of the scale of the map.

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-3: Able to use various methods for soil and crop analysis appropriately in land resource management P3.2 Able to analyze soil and plants precisely, meticulously using the latest methods
ILO-5: Able to keep up with the latest knowledge and apply it to support appropriate learning strategies P5.2 Using software technology, lab and field equipment for accurate data analysis.
7. *Course Learning Outcomes (CPMK)* *ex. The student will be able to explain the significance of current research about a particular topic.*
1. Able to analyze soil and plants precisely, meticulously using the latest methods
2. Using software technology, lab and field equipment for accurate data analysis.
8. *Learning and teaching methods*
Cooperative Learning and Case Method Learning
9. *Language of instruction*
Indonesian
10. *Assessment methods and criteria*
Summative Assessment : 1. Assignment 2. UTS 3. UAS 4. Internship **Formative Assessment**: 1. Minutes paper