



Module Description/Course Syllabi

Study Program : S1 Undergraduate Program
 Faculty of Agriculture
 University of Andalas

1. Course number and name

PIT612 09 Radioisotope Techniques in Soil and Plant Studies

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

3 credits (2 classes, 1 practicum)

3. Instructors and course coordinator

Prof. Dr. Ir. Yulnafatmawita
 Dr. Ir. Gusnidar, MP

4. Text book, title, outhor, and year

1. Hadarson.G.A. 1989. The Use of Nuclear Technique in studies of Soil and Plant Relationship. Vienna
2. L'Annunziata, M.F. 1987. Radionuclide Traces :Their Detection and Measurement. Acad.Press.
3. London Vose, P. E. 1980. Introduction to Nuclear Technique in Agronomy and Plant Biology. Pergamon
4. Yulnafatmawita, N. Hakim, and Gusnidar. 1993. Radioisotope technique practicum guide for soil and plant studies. Faculty of Agriculture, Andalas University, Padang.
5. Press. Frankfurt Yulnafatmawita, 2009. Radio isotope techniques in soil-plant studies. Student Manual.
- 6.

5. Specific course information

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

ISOTOPE RADIO TECHNIQUE IN THE STUDY OF SOIL-PLANT RELATIONSHIP (TRI) is so that students of the Department of Soil of the Faculty of Agriculture know ISOTOPE RADIO ENGINEERING as a complement (complementary) to conventional methods in studying soil and plant relationships, especially in terms of fertilizer and fertilization.

B. Level of course unit (according to EQF: first cycle Bachelor, second cycle Master)

First Cycle Bachelor

C. Year of study when the course unit is delivered (if applicable)

2nd Year

<i>D. Semester when the course unit is delivered</i>
Even Semester
<i>E. Mode of delivery (face-to-face, distance learning)</i>
Face to face
<i>6. Intended Learning Outcomes (CPL)</i>
LO-3: Able to use various methods for soil and crop analysis appropriately in land resource management PI 1 : Using laboratory equipment for soil analysis and follow-up plants with SOP PI 2: Able to analyze soil and plants precisely, meticulously using the latest methods
<i>7. Course Learning Outcomes (CPMK) ex. The student will be able to explain the significance of current research about a particular topic.</i>
3.1 Using laboratory equipment for soil analysis and milk crops with SOP
3.2 Able to analyze soil and plants precisely, meticulously using the latest methods
<i>8. Learning and teaching methods</i>
Cooperative Learning and Case Method Learning
<i>9. Language of instruction</i>
English
<i>10. Assessment methods and criteria</i>
Summative Assessment : 1. Assignment 2. UTS 3. UAS 4. Internship Formative Assessment: 1. Minutes paper