



Module Description/Course Syllabi

Study Programme : Magister of soil science

Department of Soil Science and Land Resources

Faculty of Agriculture Universitas Andalas

1. Course number and name

MIT 82113 Research Methodology

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

3 scs (3-0) / 3,61

3. Instructors and course coordinator

1. Prof. Dr. Ir. Rahmat Syahni, MSc;
2. Prof. Dr. Ir. Herviyanti, MS
3. Dr. Ir. Gusnidar, MP

4. Text book, title, author, and year

1. Creswell, J.W. 2012. Educational Research; Planning, conducting, and Evaluating Quantitative and Qualitative Research (4 ed.) Boston; PEARSON
2. Muhadjir, N. 1998. Philosophy of Science. Rake Sarasin. Yogyakarta.
3. Mutahhari, M. 1998. Quranic Perspectives on Man and Religion. Mizan. Bandung
4. Sangadji, E. M. and Sopiah. 2010. Research Methodology. CV. Andi. Yogyakarta.
5. Wibowo, W. 2010. Grammar Language Scientific Writing. Earth Literacy. Jakarta.
6. Mahalakshmi, EK, et al. 2023. Textbook of Research Methodology. Publisher: SALIHAPUBLICATION. ISBN: 978-93-94198-18-0

5. Specific course information

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

This course examines the basic concepts and philosophy of scientific research and the application in the field of agricultural study. Theoretical framework; research paradigms in agriculture and other sciences as well as ethics in research. Various types of research are discussed along with data collection and analysis techniques. Furthermore, it is discussed about creating a research proposal and writing a report in the form of a thesis. At the end, it is also introduced how to write scientific articles for journals and good presentation/seminar techniques.

B. Semester when the course unit is delivered

Even Semester

C. Mode of delivery (face-to-face, distance learning)

Face to Face

6. Intended Learning Outcomes (CPL)

ILO 4 : An ability to develop knowledge and professionalis carrier, as well as to be motivatorinsustainable agriculture and development

PI 3 : An ability to design research in 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. Students will be able to design research in soil science and land management

8. Learning and teaching methods

Cooperative Learning and Project Base Metode

9. Language of instruction

Bahasa and English (English Class)

10. Assessment methods and criteria

Summative Assessment :

1. Independent tasks/small tasks : 5 %
2. Large tasks/group tasks : 5%
3. Quiz : 5 %
4. Practicum : 25%
5. Mid Semester : 25%
6. Final Semester : 25%
7. Integrity, discipline, hard work, courtesy/ethics/have values, and confidence (character),presence : 5%

Formative Assessment:

1. Minutes paper