



**MASTER OF AGROECOTEHNOLOGY  
FACULTY OF AGRICULTURE  
UNIVERSITY OF BENGKULU**

## **COURSE SYLLABUS**

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### **AGT-511: RESEARCH METHODOLOGY AND SCIENTIFIC WRITING**

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Type of course : Compulsory

Credit unit : 3

Semester offered : 1

#### **Course description**

Discusses the concepts of scientific research, research frameworks, research design, data collection and data analysis and the preparation of scientific manuscripts that are clear, concise, cohesive, and informative based on grammatical rules.

#### **Learning outcome**

Able to develop critical research based on scientific principles and able to compose scientific manuscripts (proposals, theses, and publications)

#### **Course content**

1. Principles of scientific research
2. Defining a research problem
3. Research design
4. Measurement and scaling
5. Data collection
6. Data management and analysis
7. Prewriting process and gathering scientific information from internet
8. Outlining, drafting, revising, and reviewing

#### **References**

1. Kothari, C. R. (2009). Research methodology: Methods and techniques (Revised Edition). New Age International.
2. Katz, M. J. (2009). From research to manuscript: a guide to scientific writing. Springer Science & Business Media.
3. Nair, P. R., & Nair, V. D. (2014). Scientific writing and communication in agriculture and natural resources. Springer.