



UNIVERSITY OF LAMPUNG

FACULTY OF TEACHER TRAINING AND EDUCATION

Department of Physics Education

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MODULE HANDBOOK

Bachelor in Physics education

Module name	Educational Research Methodology
Module level	Undergraduate
Code	KFI620211
Courses	Educational Research Methodology
Description	Discusses the nature of research, research paradigms, types of research, and examines broadly and deeply about educational research methodology, which includes: the nature, procedures for conducting research, data collection techniques, data analysis techniques, literature review, making proposals, and preparing research reports.
Semester	Odd
Lecturer	Prof. Dr. Undang Rosidin, M.Pd
Contact Person	+62 813-7924-4667
Language	Indonesian
Relation to curriculum	Undergraduate degree program, Mandatory, 4rd semester
Type of teaching, contact hours	Lecture and discussions.
Workload	Contact hours: 14 weeks x 150 minutes Structured learning: 14 weeks x 180 minutes Independent study: 14 weeks x 180 minutes
Credit points	3 (3-0) CP or 4.8 (ECTS) $((14 \text{ weeks} \times 150 \text{ minutes}) + (14 \text{ weeks} \times 180 \text{ minutes}) + (14 \text{ weeks} \times 180 \text{ minutes})) : 60 \text{ minutes/hour} = 119 \text{ hours} : 25 \text{ hours of study/ECTS} = 4.8 \text{ (ECTS)}$
Requirements according to the Examination regulations	A student must have attended at least 80% of the lectures to sit in the exams.

Learning outcomes (course outcomes) and their corresponding PLOs	After completing this module, a student is expected to: 1. KNO-3 : Applying Technology, Pedagogy, and Content Knowledge (TPACK) in planning, teaching, and evaluating physics learning. 2. KNO-4 : Using research methodology knowledge to solve physics education and learning problems. 3. SKI-1 : Able to plan, implement, and evaluate physics learning based on learning activities to develop critical thinking, creativity, and problem solving skills. 4. SKI-2 : Able to plan and carry out physics education research to solve physics learning problems.
Competencies/ Course Learning Outcomes	1. Students understand the nature and basic concepts of educational research 2. Students are able to compile a research proposal Chapter I 3. Students are able to compile research proposals Chapter II and Chapter III 4. Students are able to arrange instruments, and test analysis & display data 5. Students are able to compile educational research reports 6. Students are able to compile research journals
Contents	Discusses the nature of research, research paradigms, types of research, and examines broadly and in depth about educational research methodology, which includes: nature, research implementation procedures, data collection techniques, data analysis techniques, literature review, proposal preparation, and report preparation study.
Study and examination requirements and forms of examination	Participants are evaluated based on ; 1. Participation Activities (15%) 2. Assignment (30%) 3. Final Semester Exams (30%) 4. Midterm exams (25%)
Media employed	LCD, whiteboard, and online resources
Assessments and Evaluation	Test and Assignment.
Reading list	1. Wardani, 2008: 1.1-1.16 2. Nasution, 2001: 1-22 3. Masnur Muslich, 2009: 1-15 4. Suharsimi, 2006: 7-19 5. Suharsimi, 2006: 115-126 6. Unila, 2016

