

## UNIVERSITY OF LAMPUNG

## FACULTY OF TEACHER TRAINING AND EDUCATION

Department of Physics Education

Jl. Prof. Dr. Soemantri Brodjonegoro No. 1 Bandar Lampung 35145

## **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	Undergraduate degree program, Mandatory, 4rd semester				
curriculum					
Type of teaching,	Lecture and discussions.				
contact hours	2000.0 0.10 0.0000.010.				
Workload	Contact hours: 14 weeks x 150 minutes				
	Structured learning: 14 weeks x 180 minutes				
	Independent study: 14 weeks x 180 minutes				
Credit points					
Credit points	3 (3-0) CP or 4.8 (ECTS)				
	((14 weeks x 150 minutes) + (14 weeks x 180 minutes) + (14 weeks x				
	180 minutes) : 60 minutes/hour = 119 hours : 25 hours of study/ECTS				
	= 4.8 (ECTS)				
Dogwiyamanta	A student movet have attended at least 200% of the last was to sit in				
Requirements	A student must have attended at least 80% of the lectures to sit in				
according to the Examination	the exams.				
regulations					

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