

Module Description

Module name	Course Module
Module level, if applicable	Master of Physics Education
Code, if applicable	30061033
Subtitle, if applicable	-
Course, if applicable	Educational Research Methodology
Semester(s) in which the module istaught	I (Odd semester)
Person responsiblefor the module	Lecturer of Courses
Lecturer	1. Dr. Firmanul Catur Wibowo, M.Pd
Language	Indonesian Language [Bahasa Indonesia]
Relation to Curriculum	This course is a general course and offered in the 1 st semester.
Type of teaching, contact hours	<p>Teaching methods used in this course are:</p> <ul style="list-style-type: none"> - Lecture (i.e., group investigation, small group discussion, casestudy, and video-based learning) - Structured assignments (i.e., essays and case studies) - Research & writing for assignments. <p>The class size for lecture is 20 students.</p> <p>Contact hours for lecture is 40 hours, assignments are 96 hours, and privat study is 96 hours.</p>
Workload	For this course, students required to meet a minimum of 232 hours in one semester, which consist of: 40 hours for lecture, 96 hours for structured assignments, 96 hours for private study,
Credit points	7.8 ECTS
Requirements according to the examination regulations	Students should have attended all lectures and submitted all scheduled individual and group assignments prior to the final examination.
Recommended prerequisites	Students should have attended all lectures and submitted all scheduled individual and group assignments prior to the final

	examination.
Program learning outcomes	<p>PLO 2 Master advanced knowledge of classical physics and modern physics</p> <p>PLO 7 Able to carry out scientific research in the field of physics education based on scientific methodology, logical, critical, systematic and creative thinking.</p> <p>PLO 8 Able to produce scientific articles that have novelty, and publish them in accredited national scientific journals, proceedings of international seminars, or international journals.</p>

Content	<p>Students will learn about:</p> <p>The physics education research methodology course examines the principles and procedures of scientific research, including quantitative, qualitative, and R&D research, as basic knowledge for students in conducting research and writing thesis. Topics covered include: types of research, development research (R&D), selection of research topics, problem formulation, research variables, population and sampling, data collection instruments and techniques, data analysis techniques, hypothesis testing, writing research proposals, writing research results in the thesis, techniques for writing references and bibliography, and rules for writing research reports. At the end of the course, students are expected to be able to write a thesis research proposal.</p>
Forms of Assessment	<p>Assessment of the learning process follows the following components: attendance 5%; assignments and presentations 30%; mid-test 30%, and final-test 35%.</p>
Study and examination requirements	<p>Study and examination requirements:</p> <ul style="list-style-type: none"> - Students must attend 15 minutes before the class starts. - Students must switch off all electronic devices. - Students must inform the lecturer if they will not attend the class due to sickness, etc. - Students must submit all class assignments before the deadline. - Students must attend the exam to get final grade. <p>Form of examination:</p> <p>Forms of examination: project, presentation, and written exam.</p>
Media employed	<p>Powerpoint slides, simulation videos, learning management system (LMS), ZOOM application, and UNJ e-learning.</p>

Reading list	<ol style="list-style-type: none">1. nsu Utama: 1. Cohen, L., Manion, L., & Morrison, K. (2018). Research methods in education. London, UK: Routledge.2. Creswell, J. W., & Plano Clark, V. L. (2018). Designing and conducting mixed methods research (2nd ed.). Los Angeles, LA: Sage.3. Denzin, N. K., & Lincoln, Y. S. (Eds.). (2017). The Sage handbook of qualitative research (4th ed.). Los Angeles, LA: Sage.4. John W. Creswell. (2012). Educational Research_ Planning, Conducting, and Evaluating Quantitative and Qualitative Research, 4th Edition -Addison Wesley5. Buku Pedoman Penyusunan Tesis & Disertasi. Jakarta: Universitas Negeri Jakarta.
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