



UNIVERSITAS NEGERI YOGYAKARTA
GRADUATE SCHOOL
MASTER OF EDUCATION IN MATHEMATICS

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Master of Education in Mathematics

MODULE HANDBOOK

Module name:	Educational Reseach Methodology
Module level,if applicable:	Graduate
Code:	PAS8202
Sub-heading,if applicable:	-
Classes,if applicable:	-
Semester:	1 st
Module coordinator:	Dr. Heri Retnawati
Lecturer(s):	Dr. Heri Retnawati, Dr. Rosnawati, M.Sc., Wahyu Setyaningrum, Ph.D.
Language:	Bahasa Indonesia
Classification within the curriculum:	Compulsory Course
Teaching format / class hours per week during the semester:	Lecture: face-to-face learning, blended learning, presentation, and discussion, quiz Structured activities: individual assignment, group assignment
Workload:	Lecture: 100 minutes/week Structured activities: 120 minutes/week Self-Study: 120 minutes/week Total: 5440/semester or 90.67 hours/semester
Creditpoints:	2
Prerequisites course(s):	-
Course Outcomes	After taking this course the students have ability to: CO1. Classify the domain and type of educational research, CO2. Formulate problems and variables of research, CO3. Conduct theoretical studies from various library sources and formulate hypothesis. CO4. Utilize suitable sampling techniques in research CO5. Develop research instruments, prove validity and estimate, CO6. Conduct data analyses research data, both quantitative and qualitative CO7. Report and review research results CO8. Prepare research proposals.

Content:	This course discusses the domain and type of educational research, problems and variables of research, theoretical studies from various library sources and formulate hypothesis, sampling techniques in research, research instruments, prove validity and estimate, data analyses research data, both quantitative and qualitative, technique for reporting and reviewing research results and prepare research proposals.																															
Study/exam achievements:	The assessment is conducted by observation and/or test/quiz, portfolio, and self-assessment techniques. using the assumption that basically every student has a good attitude. The final mark will be weight as follow: <table><tr><th>No</th><th>CO</th><th>Assessment Object</th><th>Assessment Technique</th><th>Weight</th></tr><tr><td>1</td><td>CO1 - CO8</td><td>a. Individual Assignment</td><td rowspan="5">Presentation / written test</td><td>15%</td></tr><tr><td></td><td></td><td>b. Group Assignment</td><td>15%</td></tr><tr><td></td><td></td><td>c. Quiz</td><td>15%</td></tr><tr><td></td><td></td><td>d. Mid/Port folio</td><td>25%</td></tr><tr><td></td><td></td><td>e. Final Exam</td><td>30%</td></tr><tr><td colspan="4">Total</td><td>100%</td></tr></table>	No	CO	Assessment Object	Assessment Technique	Weight	1	CO1 - CO8	a. Individual Assignment	Presentation / written test	15%			b. Group Assignment	15%			c. Quiz	15%			d. Mid/Port folio	25%			e. Final Exam	30%	Total				100%
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1	CO1 - CO8	a. Individual Assignment	Presentation / written test	15%																												
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		e. Final Exam		30%																												
Total				100%																												
Forms of media:	Board, LCD Projector, Laptop/Computer																															
Literature:	A. Cohen, L., Manion, L., & Morrison, K. (2011). <i>Research methods in education</i> (7th ed.). New York, NY: Routledge. B. Creswell, J. W. (2013). <i>Research design: Qualitative, quantitative, and mixed methods approaches</i>. Thousand Oaks, CA: Sage Publications. C. Creswell, J. W. (2012). <i>Educational research: Planning, conducting and evaluating quantitative and qualitative research</i> (4th ed.). Boston, MA: Pearson Education. D. Ary, D., Jacobs, L. C., & Sorensen, C. (2010). <i>Introduction to research in education</i> (8th ed.). Belmont, CA: Wadsworth. E. English, L. D (Ed.). (2002). <i>Handbook of international research in mathematics education</i>. Mahwah, NJ: Lawrence Erlbaum Associates. F. Retnawati, H. (2016). <i>Analisis kuantitatif instrument penelitian</i>. Yogyakarta: Parama Publishing. G. Scientific Journal, both national and international																															

PLO and CO mapping

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9
CO1								✓	
CO2					✓				
CO3					✓				
CO4						✓			
CO5						✓			
CO6						✓			
CO7							✓		
CO8						✓			