



UNIVERSITAS NEGERI YOGYAKARTA

FACULTY OF MATHEMATICS AND NATURAL SCIENCES
DEPARTMENT OF SCIENCE EDUCATION

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Bachelor of Education in Science

MODULE HANDBOOK

Module name:	Lab Work of Research Methods in Science Education
Module level, if applicable:	Undergraduate
Code:	PIA6114
Sub-heading, if applicable:	-
Classes, if applicable:	-
Semester:	6 th
Module coordinator:	Dr. Dadan Rosana, M.Si.
Lecturer(s):	Dr. Dadan Rosana, M.Si.
Language:	Bahasa Indonesia
Classification within the curriculum:	Compulsory Course
Teaching format / class hours per week during the semester:	100 minutes lectures and 120 minutes structured activities per week.
Workload:	Total workload is 90,67 hours per semester which consists of 100 minutes lectures, 120 minutes structured activities, and 120 minutes individual study per week for 16 weeks.
Credit points:	1 SKS (3 ETCS)
Prerequisites course(s):	-
Targeted learning outcomes:	After successfully completing this course, you will be able to: CO1. Develop a research background CO 2. Develop a theoretical study in research CO 3. Develop research methods CO 4. Write a bibliography with computer applications
Content:	The Science Education Research Methodology Practicum course is prepared for students to properly prepare a research proposal for science education (Research based on experiment) including the introduction, basic theory, and research methods.

	Final Product: Research Proposal submitted as a Final Assignment (Under Thesis)															
Study / exam achievements:	<p>Attitude assessment is carried out at each meeting by observation and/or self-assessment techniques using the assumption that basically every student has a good attitude. The student is given a value of very good or not good attitude if they show it significantly compared to other students in general. The result of attitude assessment is not a component of the final grades, but as one of the requirements to pass the course. Students will pass from this course if at least have a good attitude.</p> <p>The final mark will be weight as follow:</p> <table border="1"> <thead> <tr> <th>No</th> <th>CO</th> <th>Assessment Object</th> <th>Assessment Technique</th> <th>Weight</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>C01, C02, C03, C04, C05, C06, C07, and C08.</td> <td>a. Individual Assignment b. Group Assignment c. Quiz d. Mid e. Final Exam</td> <td>Presentation / written test</td> <td>15% 15% 15% 25% 30%</td> </tr> <tr> <td colspan="4">Total</td> <td>100%</td> </tr> </tbody> </table>	No	CO	Assessment Object	Assessment Technique	Weight	1	C01, C02, C03, C04, C05, C06, C07, and C08.	a. Individual Assignment b. Group Assignment c. Quiz d. Mid e. Final Exam	Presentation / written test	15% 15% 15% 25% 30%	Total				100%
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1	C01, C02, C03, C04, C05, C06, C07, and C08.	a. Individual Assignment b. Group Assignment c. Quiz d. Mid e. Final Exam	Presentation / written test	15% 15% 15% 25% 30%												
Total				100%												
Forms of media:	Board, LCD Projector, Laptop/Computer															
Literature:	<ol style="list-style-type: none"> Creswell, J. W. (2014). Research design: Qualitative, quantitative, and mixed methods Ary, Donald Ary; Jacob, Lucy Cheser; Razavieh, Asghar. (1985). Introduction to Research in Education. Third Edition, New York: Holt, Rinehart and Winston. Krathwohl, David R. (1986).. Methods of Educational & Social Science Research. New York: Addison Wesley Longman, Inc. Wiersma, William. (1986). Research Methods in Education an Introduction. Fourth Edition.. Boston: Allyn and Bacon, Inc. 															

PLO and CO mapping

	PLO											
	Attitude			Knowledge				Specific Skill				
	PLO1	PLO2	PLO3	PLO1	PLO2	PLO3	PLO4	PLO1	PLO2	PLO3	PLO4	PLO5
CO1					✓		✓	✓	✓	✓	✓	✓
CO2				✓			✓	✓	✓	✓	✓	✓
CO3					✓	✓		✓	✓	✓	✓	✓
CO4				✓				✓	✓	✓	✓	✓