

## UNIVERSITAS NEGERI YOGYAKARTA

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## Bachelor of Education in Science

## MODULE HANDBOOK

Module name:	CAR and R & D Research methodology
Module level, if applicable:	Undergraduate
Code:	PIA6219
Sub-heading, if applicable:	-
Classes, if applicable:	-
Semester:	7 <sup>th</sup>
Module coordinator:	Al Maryanto, M.Pd.
Lecturer(s):	Al Maryanto, M.Pd.
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.
	Total workload is 90,67 hours per semester which consists of
Workload:	100 minutes lectures, 120 minutes structured activities, and
	120 minutes individual study per week for 16 weeks.
Credit points:	2 SKS (3 ETCS)
Prerequisites course(s):	-
Targeted learning outcomes:	<ul> <li>After careful study of this chapter students are expected to have gained theoretical and applied knowledge of basic topics related to:</li> <li>CO1. the principles and procedures in classroom action research</li> <li>CO2. the principles and procedures in research and development in science education</li> </ul>
Content:	This course and practicum are for developing competence in understanding the principles and procedures in classroom action research, starting from the analysis of the situation in the class room, the formulation of problems, how to solve

	problems through selected actions, and the preparation of cycles for problem solving, data collection and analysis and reporting. As well as reviewing a strategy for developing effective science education products. This strategy which is then called development research includes a research cycle for the development of educational products. The purpose of this development research is to bridge the divide that often arises between science education research and the practical needs of science education.						
Study / exam achievements:	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. The final mark will be weight as follow:						
	No	СО	Assessment Object	Assessment Technique	Weight	]	
	1	C01,	a. Individual	Presentation	15%	1	
		CO2, CO3, CO4,	Assignment b. Group Assignment c. Quiz d. Mid e. Final Exam	/ written test Total	15% 15% 25% 30%	-	
Forms of media:	Boar	d, LCD P	Assignment b. Group Assignment c. Quiz d. Mid e. Final Exam Projector, Laptop/Compu	/ written test Total iter	15% 15% 25% 30% 100%		

## PLO and CO mapping

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