Document Code



Universitas Negeri Surabaya Faculty of Mathematics and Natural Sciences Science Education Doctoral Study Program

		S	ΕM	ES1	EF	R L	EΑ	RN	ING	PL	_AI	N						
Courses		CODE	CODE		C	Course Family		Credit Weight			SE	MES	ΓER		Compi Date	lation		
Study of Research Results		840010405	8400104056			Compulsory Study		T=4	P=0	EC1	ΓS=10.0	В		1		June 2	0, 2022	
AUTHORIZATION		SP Develo	SP Developer		<u> </u>	Program Subjects Cours		se Clu	ıster (Coord	dinator	Stu	Study Program Coordinator		r			
		Prof. Dr. Bu	Prof. Dr. Budi Jatmiko, M.I			.Pd. Prof. I		f. Dr. Budi Jatmiko, M.Pd.			Prof. Dr. Suyatno, M.Si.		Si.					
Learning model	Project Based L	earning											1					
Program																		
Learning Outcomes (PLO)	PLO-8 2. Able to prepare scientific arguments and solutions based on a critical view of facts, concepts, principles or theories that can be justified scientifically and academically, and communicate them through scientific publications in reputable international journals																	
	PLO-12	2. Master the late	st the	ories re	lated	l to so	ientifi	c know	ledge	and s	cience	e educa	ion					
	Program Objec	tives (PO)																
	PO - 1	Discovering the n	ovelty	of doc	oral r	resea	rch th	rough	dissert	ation	study.							
	PO - 2	Creating Model B	ooks/L	.earnin	g Too	ols/Re	esearc	h Instr	ument	s as a	form	of opera	ational	supp	ort for	dissert	ation s	tudies.
	PO - 3	Create a doctoral	resea	rch des	sign tl	hat m	eets k	KKNI le	vel 9 i	n the f	orm o	of a diss	ertatio	n pro	posal.			
	PLO-PO Matrix																	
		P.O PLO-{)-8	8 PLO												
		PO-1																
		PO-2																
		PO-3																
	PO Matrix at th	e end of each lea	arninç	g stag	e (Sı	ıb-P(O)											
			1															
		P.O				1				Week								
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
		PO-1																
		PO-2																
		PO-3																
Short Course Description	This course facilitates students to obtain a doctoral research design that meets KKNI level 9 in the form of a dissertation proposal Activities carried out by students include: (1) Analyzing the novelty of doctoral research through dissertation studies, (2) Making Mode Books/Learning Tools/Research Instruments as a form of operational support for dissertation studies. Through this course, it is hoped that students will be able to produce a dissertation proposal that is ready for seminars, equipped with a minimum of Model Books/Learnin Tools/Research Instruments as an operational form of their dissertation.								ing Model hoped that									
References	Main :																	
	Publication 2. Fraenkel McGraw-	, J. R., Wallen, N.	E., &	Hyun	Н. Н	- Н. (20	012).	How to	desiç	gn and	l eva	luate re	search	n in e	ducatio	on (8th	ed.).	New York:
Supporting lecturer		miko, M.Pd. , M.Si.																

Week-	Final abilities of each learning stage	Eva	luation	Lea Stud	Help Learning, arning methods, ent Assignments, Estimated time]	Learning materials	Assessment Weight (%)	
	(Sub-PO)	Indicator	Criteria & Form	Offline (offline)	Online (online)	[Noiciciloco]	Weight (70)	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
1	1.Analyzing the results of science education doctoral research 2.Discovering the novelty of science education doctoral research from the results of dissertation studies	Analyzing the novelty of doctoral research through dissertation studies	Criteria: Based on the assessment rubric that has been created by the teaching lecturer Form of Assessment: Project Results Assessment / Product Assessment	Flip learning, Discussion and PjBL 4 x 50 minutes	Flip learning, Discussion, and PjBL 4x50 minutes	Material: Dissertation/Publication of dissertation results (Reference no. 1,2,3,4) References:	5%	
2	1.Analyzing the results of science education doctoral research 2.Discovering the novelty of science education doctoral research from the results of dissertation studies	Analyzing the novelty of doctoral research through dissertation studies	Criteria: Based on the assessment rubric that has been created by the teaching lecturer Form of Assessment: Project Results Assessment / Product Assessment	Flip learning, Discussion and PjBL 4 x 50 minutes	Flip learning, Discussion, and PjBL	Material: Dissertation/Publication of dissertation results (Reference no. 1,2,3,4) References:	5%	
3	Prepare the Preliminary Section of the Science Education Doctoral Dissertation Research Design that meets KKNI level 9	Creating the Introduction to the Research Design of a Science Education Doctoral Dissertation	Criteria: Based on the assessment rubric that has been created by the teaching lecturer Form of Assessment: Project Results Assessment / Product Assessment	Flip learning, Discussion and PjBL 4 x 50 minutes	Flip learning, Discussion, and PjBL	Material: regarding the introductory chapter (References 1,2,3,4) References:	8%	
4	Prepare the Preliminary Section of the Science Education Doctoral Dissertation Research Design that meets KKNI level 9	Creating the Introduction to the Research Design of a Science Education Doctoral Dissertation	Criteria: Based on the assessment rubric that has been created by the teaching lecturer Form of Assessment: Project Results Assessment / Product Assessment	Flip learning, Discussion and PjBL 4 x 50 minutes	Flip learning, Discussion, and PjBL	Material: Regarding the introductory chapter (References 1,2,3,4) References:	8%	
5	Compile the Literature Review Section of the Science Education Doctoral Dissertation Research Design that meets KKNI level 9	Creating a Literature Review Section Research Design for a Science Education Doctoral Dissertation	Criteria: Based on the assessment rubric that has been created by the teaching lecturer Form of Assessment: Project Results Assessment / Product Assessment	Flip learning, Discussion and PjBL 4 x 50 minutes	Flip learning, Discussion, and PjBL	Material: Regarding the Literature Review Chapter (References 1,2,3,4) Literature:	8%	
6	Compile the Literature Review Section of the Science Education Doctoral Dissertation Research Design that meets KKNI level 9	Creating a Literature Review Section Research Design for a Science Education Doctoral Dissertation	Criteria: Based on the assessment rubric that has been created by the teaching lecturer Form of Assessment: Project Results Assessment / Product Assessment	Flip learning, Discussion and PjBL 4 x 50 minutes	Flip learning, Discussion, and PjBL 4x50 minutes	Material: Regarding the Literature Review Chapter (References 1,2,3,4) Literature:	8%	

7	Compile the Literature Review Section of the Science Education Doctoral Dissertation Research Design that meets KKNI level 9	Creating a Literature Review Section Research Design for a Science Education Doctoral Dissertation	Criteria: Based on the assessment rubric that has been created by the teaching lecturer Form of Assessment: Project Results Assessment / Product Assessment	Flip learning, Discussion and PjBL 4 x 50 minutes	Flip learning, Discussion and PjBL 4 x 50 minutes	Material: Regarding the Literature Review Chapter (References 1,2,3,4) Literature:	8%
8	Final Capabilities from TM-1 to TM-7	TM-1 indicators up to TM-7 indicators	Criteria: Based on the assessment rubric that has been created by the teaching lecturer Form of Assessment: Test	Written test or assignment to replace UTS 4 x 50 minutes		Material: Learning topics from TM-1 to TM-7 Library:	5%
9	Developing Research Methods for Science Education Doctoral Dissertation Research Designs that meet KKNI level 9	Creating a Research Method Research Design for a Science Education Doctoral Dissertation	Criteria: Based on the assessment rubric that has been created by the teaching lecturer Form of Assessment: Project Results Assessment / Product Assessment	Flip learning, Discussion and PjBL 4 x 50 minutes	Flip learning, Discussion, and PjBL 4x50 minutes	Material: Regarding the Research Methods Chapter (References 1,2,3,4) References:	5%
10	Developing Research Methods for Science Education Doctoral Dissertation Research Designs that meet the KKNI level	Creating a Research Method Research Design for a Science Education Doctoral Dissertation	Criteria: Based on the assessment rubric that has been created by the teaching lecturer Form of Assessment: Project Results Assessment / Product Assessment	Flip learning, Discussion and PjBL 4 x 50 minutes	Flip learning, Discussion, and PjBL	Material: Regarding the Research Methods Chapter (References 1,2,3,4) References:	5%
11	Developing Research Methods for Science Education Doctoral Dissertation Research Designs that meet KKNI level 9	Creating a Research Method Research Design for a Science Education Doctoral Dissertation	Criteria: Based on the assessment rubric that has been created by the teaching lecturer Form of Assessment: Project Results Assessment / Product Assessment	Flip learning, Discussion and PjBL 4 x 50 minutes	Flip learning, Discussion, and PjBL	Material: Regarding the Research Methods Chapter (References 1,2,3,4) References:	5%
12	Preparing Model Books/Learning Tools/Research Instruments as a form of operational support for dissertation studies.	Creating Model Books/Learning Tools/Research Instruments as a form of operational support for dissertation studies.	Criteria: Based on the assessment rubric that has been created by the teaching lecturer Form of Assessment: Project Results Assessment / Product Assessment	Flip learning, Discussion and PjBL 4 x 50 minutes	Flip learning, Discussion, and PjBL 4x50 minutes	Material: Operational forms of products to support dissertation studies (Reference no. 1,2,3,4) References:	5%
13	Preparing Model Books/Learning Tools/Research Instruments as a form of operational support for dissertation studies.	Creating Model Books/Learning Tools/Research Instruments as a form of operational support for dissertation studies.	Criteria: Based on the assessment rubric that has been created by the teaching lecturer Form of Assessment: Project Results Assessment / Product Assessment	Flip learning, Discussion and PjBL 4 x 50 minutes	Flip learning, Discussion, and PjBL 4x 50 minutes	Material: Operational forms of products to support dissertation studies (Reference no. 1,2,3,4) References:	5%

14	Preparing Model Books/Learning Tools/Research Instruments as a form of operational support for dissertation studies.	Creating Model Books/Learning Tools/Research Instruments as a form of operational support for dissertation studies.	Criteria: Based on the assessment rubric that has been created by the teaching lecturer Form of Assessment: Project Results Assessment / Product Assessment	Flip learning, Discussion and PjBL 4 x 50 minutes	Flip learning, Discussion and PjBL 4 x 50 minutes	Material: Operational forms of products to support dissertation studies (Reference no. 1,2,3,4) References:	5%
15	Preparing Model Books/Learning Tools/Research Instruments as a form of operational support for dissertation studies.	Creating Model Books/Learning Tools/Research Instruments as a form of operational support for dissertation studies.	Criteria: Based on the assessment rubric that has been created by the teaching lecturer Form of Assessment: Project Results Assessment / Product Assessment	Flip learning, Discussion and PjBL 4 x 50 minutes	Flip learning, Discussion and PjBL 4 x 50 minutes	Material: Operational forms of products to support dissertation studies (Reference no. 1,2,3,4) References:	10%
16	Final Capabilities from TM-9 to TM- 15	TM-9 indicators up to TM-15 indicators	Criteria: Based on the assessment rubric that has been created by the teaching lecturer Form of Assessment: Test	Written test or assignment as a substitute for UAS 4 x 50 minutes		Material: Learning topics from TM-9 to TM-15 Library:	5%

Evaluation Percentage Recap: Project Based Learning

No	Evaluation	Percentage					
1.	Project Results Assessment / Product Assessment	90%					
2.	Test	10%					
		100%					

Notes

- Learning Outcomes of Study Program Graduates (PLO Study Program) are the abilities possessed by each Study
 Program graduate which are the internalization of attitudes, mastery of knowledge and skills according to the level of their study
 program obtained through the learning process.
- 2. The PLO imposed on courses are several learning outcomes of study program graduates (CPL-Study Program) which are used for the formation/development of a course consisting of aspects of attitude, general skills, special skills and knowledge.
- 3. **Program Objectives (PO)** are abilities that are specifically described from the PLO assigned to a course, and are specific to the study material or learning materials for that course.
- 4. **Subject Sub-PO (Sub-PO)** is a capability that is specifically described from the PO that can be measured or observed and is the final ability that is planned at each learning stage, and is specific to the learning material of the course.
- Indicators for assessing abilities in the process and student learning outcomes are specific and measurable statements that identify the abilities or performance of student learning outcomes accompanied by evidence.
- 6. Assessment Criteria are benchmarks used as a measure or measure of learning achievement in assessments based on predetermined indicators. Assessment criteria are guidelines for assessors so that assessments are consistent and unbiased. Criteria can be quantitative or qualitative.
- 7. **Forms of assessment:** test and non-test.
- 8. Forms of learning: Lecture, Response, Tutorial, Seminar or equivalent, Practicum, Studio Practice, Workshop Practice, Field Practice, Research, Community Service and/or other equivalent forms of learning.
- 9. Learning Methods: Small Group Discussion, Role-Play & Simulation, Discovery Learning, Self-Directed Learning, Cooperative Learning, Collaborative Learning, Contextual Learning, Project Based Learning, and other equivalent methods.
- 10. Learning materials are details or descriptions of study materials which can be presented in the form of several main points and sub-topics.
- 11. The assessment weight is the percentage of assessment of each sub-PO achievement whose size is proportional to the level of difficulty of achieving that sub-PO, and the total is 100%.
- 12. TM=Face to face, PT=Structured assignments, BM=Independent study.