

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

Document Code

SEMESTER LEARNING PLAN

Courses			CODE			•	Cou	rse Fa	amily	,	Credit Weight			S	SEME	STER	Cor Dat	npilation e	
Advanced Qu Methodology	alitative Research	1	840010305	2				pulso ram S				T=3	P=0	ECTS=7.	56		1	Jun 202	e 20, 2
AUTHORIZAT	ION		SP Develop	ber						C	ourse	Clus	ter C	oordinato	r s	Study	Progra	ım Co	ordinato
			Prof. Dr. Erman, M.Pd. F			Pi	Prof. Dr. Erman, M.Pd.					Prof. Dr. Suyatno, M.Si.			o, M.Si.				
Learning model	Project Based L	earning	g																
Program	PLO study prog	gram v	vhich is cha	arge	d to tl	he cou	urse	;											
Learning Outcomes	Program Object	tives ((PO)																
(PLO)	PO - 1	Devel the fie	op scientific t Id of science	heori educ	es, co cation	nceptio in a co	ons a	and id ehens	leas i sive a	n ord nd co	ler to ontext	contri ual m	bute t anner	o the deve	lopm	ent an	d pract	ice of	science i
	PO - 2	Maste scienc	ring the basi	cs of know	natura ledge.	alistic c	quali	tative	resea	arch	and c	ombir	ning it	with quant	itative	e rese	arch in	order	to updat
	PO - 3		op a qualitati paring a diss			h desig	gn ar	nd coi	mbine	e qua	litativ	e and	quan	titative res	earch	n (mix	metho	d) in tl	ne contex
	PO - 4	Uphol and p	ding human sychomotor)	value in an	es and integr	l cultur ated m	re in nann	orde er.	r to d	levelo	op stu	dents	s' attit	udes, skills	and	l abilit	ies (co	gnitive	, affectiv
	PLO-PO Matrix																		
		<u> </u>																	
			P.0																
			PO-1																
			PO-2																
			PO-3																
			PO-4																
	PO Matrix at th	e end	of each lea	rning	g stag	je (Su	b-P(0)											
			P.0									We	ek						
				1	2	3	4	5	6	7	8	9	10	11	L2	13	14	15	16
		PC)-1																
		PC)-2																
		PC)-3																
		PC)-4																
Short Course Description	Examining the ba the general patte problems into sev formulating resea	rn/fľow veral re	of qualitative search focus	rese es, c	arch a ollecti	nd the	e pos I pre	sibilit sentir	y of a ng res	mix searc	meth h dat	od for a, che	mulat cking	ng qualitat data valid	ivė re ity, pr	eseard rocedu	h probl ires for	ems, o analy	describin zing data
References	Main :																		

		 Lincoln, Yvona S. & Guba, Egon G.1985. Naturalistic Inquiry. Beverly Hills. London, New Delhi: Sage Publication. Miles, Matthew B & Huberman, A. Michael. 1984. Qualitative Data Analysis. Beverly Hills. London. New Delhi: Sage Publication Yin, Robert K. 2011. Qualitative Research from Start to Finish. London: The Guilford Press Gay, L.R., Mills, G.E., & Airasian, P. 2012. Educational Research. Boston: Pearson Cropley, A.J. 2022. Introduction to Qualitative Research Method: A Practice-Oriented Introduction. Hamburg: Editura Intaglio University of Hamburg. Creswell, J.W. & Creswell, J.D. 2018. Research Design: Qualitative, Quantitative, and Mixed Methods Approaches. Los Angeles: Sage Publication Inc. Birks, M. & Mills, J. 2015. Grounded Theory: A Practical Guide. London: Sage Creshwell, John W. 2013. Qualitative Inquiry & Research Design. New Delhi: Sage Publication Creshwell, John W. 2013. Qualitative Inquiry & Research Design: Choosing Among Five Approaches. New Delhi Sage Publication. Packer, Martin. 2011. The Science of Qualitative Research. New York: Cambridge Univ. Press 						
Support	 Creshwell, John W. 2013. Qualitative Inquiry & Research Design. New Delhi: Sage Publication Creshwell, John W. & Cheryl. N.Poth. 2018. Qualitative & Research Design: Choosing Among Five Approaches. New Dell Sage Publication Packer, Martin. 2011. The Science of Qualitative Research. New York: Cambridge Univ. Press Thomas, Murray R. 2003.Blending Qualitative & Quantitative Research Method in Theses and Disertations.California: Corv Press. Inc. Prabowo. 2011. Metode Penelitian (Sains dan Pendidikan Sains).Surabaya:Unesa Univ. Press 							
Week-	Fina eacl stag	Dr. Eko Hariyono, al abilities of h learning je p-PO)	Ev	aluation	Lean Studer [Es	Ip Learning, ning methods, nt Assignments, timated time]	Learning materials [References	Assessment Weight (%)
(1)	(Sui	(2)	Indicator (3)	Criteria & Form (4)	Offline (offline) (5)	Online (<i>online</i>) (6)	(7)	(8)
1	und qua mix res me phi pra cor	(2) ve an derstanding of antitative, alitative and ked method eearch thodologies both losophically and uctically in the ntext of science ucation	(3) Able to examine the gap between expectations and reality as an initial qualitative research study	Criteria: 1.Score 4 if you	Presentation of information, questions and answers, and assignments 3x50 minutes		(7) Material: Chronology of paradigms in the history of research. References: Gay, LR, Mills, GE, & Airasian, P. 2012. Educational Research. Boston: Pearson	7%

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2	 1.Identify the characteristics of qualitative, quantitative and mixed method research methodologies in the context of science education research 2.Explain the differences between qualitative, quantitative and mixed method research methodologies in the context of science education research 	 Identify the characteristics of qualitative, quantitative and mixed method research Explain the differences between qualitative, quantitative and mixed method research methodologies 	Criteria: 1.Score 4 if you can explain the differences between qualitative, quantitative and mixed method research methodologies correctly and in detail 2.Score 3 if you can explain most of the differences between qualitative, quantitative and mixed method research methodologies correctly 3.Score 2 if you can explain a small part of the differences between qualitative, quantitative and mixed method research methodologies correctly 3.Score 1 if you can explain a small part of the differences between qualitative, quantitative and mixed method research methodologies correctly. 4.Score 1 if you cannot explain the differences between qualitative, quantitative and mixed method research methodologies correctly. 5.Score 1 if you cannot explain the differences between qualitative, quantitative and mixed method research methodologies correctly. Form of Assessment Participatory Activities, Portfolio Assessment	Presentation and discussion 3 x 50 minutes	Material: Naturalistic qualitative research flow diagram. References: Material: The nature of inquiry Bibliography: Lincoln, Yvona S. & Guba, Egon G. 1985. Naturalistic Inquiry. Beverly Hills. London, New Delhi: Sage Publications. Material: Qualitative research design References: Gay, LR, Mills, GE, & Airasian, P. 2012. Educational Research. Boston: Pearson	7%

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3	Designing qualitative or mixed method research ideas that are feasible and novel in the context of science education	Able to design qualitative or mixed method research ideas that have novelty value in the context of science education	Criteria: 1.Score 4 if the research idea is feasible and has novelty value 2.Score 3 if the research idea is less feasible but has novelty value 3.Score 2 if the research idea is feasible but has no novelty value 4.Score 1 if the qualitative research idea is not feasible Form of Assessment Project Results Assessment, Portfolio Assessment	PjBL 3 x 50 minutes	Material: Axioms of the differences between positivistic and postpositivistic paradigms References: Material: Qualitative research design References: Yin, Robert K. 2011. Qualitative Research from Start to Finish. London: The Guilford Press Material: Qualitative research design References: Gay, LR, Mills, GE, & Airasian, P. 2012. Educational Research. Boston: Pearson Material: Qualitative research design References: Creshwell, John W. 2013. Qualitative research design References: Creshwell, John W. 2013. Qualitative research design References: Creshwell, John W. 2013. Qualitative Inquiry & Research Design. New Delhi: Sage Publications Material: Qualitative Research Design. New Delhi: Sage Publications Material: Qualitative Research Design. New Delhi: Sage Publications Material: Qualitative Research Design: Choosing Among Five Approaches. New Delhi: Sage Publications	6%

4	Develop sustitution	Able to desire	Quitauia	DiDI	Madaulat	70/
4	Develop qualitative research ideas that are new in the context of science education	Able to design qualitative research ideas that have novelty value in the context of science education	Criteria: 1.Score 4 if the qualitative or mixed method research idea is feasible and has novelty value 2.Score 3 if the qualitative or mixed method research idea is not feasible but has novelty value 3.Score 2 if the qualitative or mixed method research idea is not feasible and has no novelty value 4.Score 1 if the qualitative or mixed method research idea is not feasible and has no novelty value Form of Assessment Project Results Assessment / Product Assessment	PjBL 3 x 50 minutes	Material:Axioms of the differencesbetweenpositivistic andpostpositivisticparadigmsReferences:Material:QualitativeresearchdesignReferences:Yin, Robert K.2011.QualitativeResearchfrom Start toFinish.London: TheGuilford PressMaterial:QualitativeresearchdesignReferences:Gay, LR, Mills,GE, &Airasian, P.2012.EducationalResearch.Boston:PearsonMaterial:QualitativeresearchdesignReferences:Creshwell,John W. 2013.QualitativeInquiry &ResearchDesign. NewDelhi: SagePublicationsMaterial:QualitativeresearchDesign. NewDelhi: SagePublications	7%
					References: Creshwell, John W. 2013. Qualitative Inquiry & Research Design. New Delhi: Sage	
					Material: Qualitative	
					Approaches. New Delhi: Sage Publications	

5 Designing qualitative research ideas that are noticed and have novelty science education Able to design qualitative or inter feasible and have novelty context of science education Criteria: 1.Score 4 if the qualitative or mixed method research idea is novelty value 2.Score 3 if the qualitative or mixed method Score 2 if the qualitative or mixed method research idea is not feasible but has novelty value 3.Score 1 if the qualitative or mixed method Score 2 if the qualitative or mixed method research idea is not feasible and has no novelty value 4.Score 1 if the qualitative or mixed method Form of Assessment 9. Project Results Assessment / Product Assessment	Material: Axioms of the differences between positivistic paradigms References: Material: Qualitative research design References: Yin, Robert K. 2011. Qualitative Research from Start to Finish. London: The Guilford Press Material: Qualitative research design References: Gay, LR, Mills, GE, & Airasian, P. 2012. Educational Research. Boston: Pearson Material: Qualitative research design References: Creshwell, John W. 2013. Qualitative Inquiry & Research Design. New Delhi: Sage Publications Material: Qualitative Research design References: Creshwell, John W. 2013. Qualitative Research Design. New Delhi: Sage Publications Material: Qualitative Research Design: Creshwell, John W. & Cheryl. N. Poth. 2018. Qualitative & Research Design: Choosing Among Five Approaches. New Delhi: Sage Publications	7%

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6	Develop a draft qualitative research proposal based on research ideas that are feasible and have novelty value	 1.Able to write qualitative or mixed method research proposals that are feasible and have novelty value 2.Able to present a qualitative or mixed method research proposal that is feasible and has novelty value 	Criteria: 1.Score 4 if the proposal developed is worthy of being used as a dissertation, complete, and has novelty 2.Score 3 if the proposal developed is worthy of being used as a dissertation, is incomplete, but has novelty 3.Score 2 if the proposal developed is worthy of being used as a dissertation, is incomplete, and has no novelty 4.Score 1 if the proposal developed is not suitable to be used as a dissertation, is incomplete, and has no novelty 4.Score 1 if the proposal developed is not suitable to be used as a dissertation, is incomplete, and has no novelty Form of Assessment Project Results Assessment / Product Assessment	PjBL 3 x 50 minutes	Material: Results of preliminary studyReferences:Material: Qualitative research designReferences: Miles, Matthew B & Huberman, A. Michael. 1984. Qualitative Data Analysis. Beverly Hills. London. New Delhi: Sage PublicationsMaterial: Qualitative research designReferences: Gay, LR, Mills, GE, & Airasian, P. 2012. Educational Research. Boston: PearsonMaterial: Qualitative research designMaterial: Qualitative research designMaterial: Qualitative research designMaterial: Qualitative research designMaterial: Qualitative research designMaterial: Qualitative research designMaterial: Qualitative research designConton: The Guilford Press	7%

7	Develop a draft qualitative research proposal based on research ideas that are feasible and have novelty value	 1. Able to write a qualitative or mixed method research proposal that is feasible and has novelty value 2. Able to present a qualitative or mixed method research proposal that is feasible and has novelty value 	Criteria: 1.Score 4 if the proposal developed is worthy of being used as a dissertation, complete, and has novelty 2.Score 3 if the proposal developed is worthy of being used as a dissertation, is incomplete, but has novelty 3.Score 2 if the proposal developed is worthy of being used as a dissertation, is incomplete, and has no novelty 4.Score 1 if the proposal developed is not suitable to be used as a dissertation, is incomplete, and has no novelty 4.Score 1 if the proposal developed is not suitable to be used as a dissertation, is incomplete, and has no novelty Form of Assessment i Project Results Assessment / Product Assessment		PjBL 3 x 50 minutes	Material: Results of preliminary study References: Material: Qualitative research design References: Miles, Matthew B & Huberman, A. Michael. 1984. Qualitative Data Analysis. Beverly Hills. London. New Delhi: Sage Publications Material: Qualitative research design References: Gay, LR, Mills, GE, & Airasian, P. 2012. Educational Research. Boston: Pearson Material: Qualitative research design References: Gay, LR, Mills, GE, & Airasian, P. 2012. Educational Research. Boston: Pearson Material: Qualitative research design References: Yin, Robert K. 2011. Qualitative Research from Start to Finish. London: The Guiford Press	7%
8	Final Capabilities from TM-1 to TM-7	Indicators from TM-1 to TM-7	Criteria: Product assessment: research idea/proposal Form of Assessment : Project Results Assessment / Product Assessment	Written test or giving substitute assignments for UTS 3 x 50 minutes	Midterm 1 week	Material: Learning topics from TM-1 to TM-7 Library:	5%

9	1.Explain the draft	1.Able to write	Criteria:	Presentation and PjBL 3 x 50 minutes	Material:	7%
	of appropriate learning tools/instruments and data collection techniques in qualitative research 2.Developing instruments in a qualitative research proposal plan	drafts of learning tools and instruments according to the draft research proposal 2.Able to explain learning tools and instruments according to the research proposal draft	 Score 4 if the draft learning tools and instruments are conceptually feasible for use in data collection Score 3 if the draft learning tools and instruments are mostly conceptually feasible for use in data collection Score 2 if the draft learning tools and instruments are only partially conceptually feasible for use in data collection Score 1 if the draft learning tools and instruments are only partially conceptually feasible for use in data collection Score 1 if the draft learning tools and instruments are not yet conceptually feasible for use in data collection Form of Assessment Project Results Assessment / Product 	3 X 50 minutes	Library data collection methods : Material: Qualitative research methods Reference: Prabowo. 2011. Research Methods (Science and Science Education). Surabaya: Unesa Univ. Press Material: Educational research References: Gay, LR, Mills, GE, & Airasian, P. 2012. Educational Research. Boston: Pearson	
10	Develop draft learning tools, research materials and instruments in accordance with the draft research proposal	Able to explain learning tools and instruments according to the research proposal draft	Criteria: 1.Score 4 if the draft learning tools, research materials and instruments are conceptually feasible for use in data collection 2.Score 3 if the draft learning tools, research materials and instruments are mostly conceptually feasible for use in data collection 3.Score 2 if the draft learning tools, research materials and instruments are only partially conceptually feasible for use in data collection 3.Score 1 if the draft learning tools, research materials and instruments are only partially conceptually feasible for use in data collection 4.Score 1 if the draft learning tools, research materials and instruments are not yet conceptually feasible for use in data collection Forms of Assessment : Participatory Activities, Project Results Assessment / Product Assessment	Presentation of assignments and PjBL 3 x 50 minutes	Material: Library data collection methods : Material: Qualitative research methods Reference: Prabowo. 2011. Research Methods (Science and Science Education). Surabaya: Unesa Univ. Press Material: Educational research References: Gay, LR, Mills, GE, & Airasian, P. 2012. Educational Research. Boston: Pearson	7%

11	Develop draft learning tools, research materials and instruments in accordance with the draft research proposal	 Able to write drafts of learning tools, research materials and instruments according to the draft research proposal Able to explain learning tools and instruments according to the research proposal draft 	Criteria: 1.Score 4 if the draft learning tools, research materials and instruments are conceptually feasible for use in data collection 2.Score 3 if the draft learning tools, research materials and instruments are mostly conceptually feasible for use in data collection 3.Score 2 if the draft learning tools, research materials and instruments are only partially conceptually feasible for use in data collection 4.Score 1 if the draft learning tools, research materials and instruments are only partially conceptually feasible for use in data collection 4.Score 1 if the draft learning tools, research materials and instruments are not yet conceptually feasible for use in data collection Form of Assessment Project Results Assessment / Product		Presentation and PjBL 3 x 50 minutes	Material: Library data collection methods : Material: Qualitative research methods Reference: Prabowo. 2011. Research Methods (Science and Science Education). Surabaya: Unesa Univ. Press Material: Educational research References: Gay, LR, Mills, GE, & Airasian, P. 2012. Educational Research. Boston: Pearson	7%
12	Checking the validity of data in various ways	Able to carry out member checks and audit trails	Criteria: Attached Form of Assessment : Project Results Assessment / Product Assessment	Presentation, Discussion and PjBL 3 x 50 minutes	Presentation, Discussion and PjBL 3x 50 minutes	Material: Member check and audit trail References:	7%
13	Analyze data according to the recommended flow	Able to formulate findings based on data from the field	Criteria: Attached Form of Assessment : Project Results Assessment / Product Assessment	Presentation, Discussion and PjBL 3 x 50 minutes	Presentation, Discussion and PjBL 3x50 minutes	Material: Final conclusion of research References:	7%
14	Analyze data according to the recommended flow	Able to summarize findings into final research conclusions.	Criteria: Attached Form of Assessment : Project Results Assessment / Product Assessment	Presentation, Discussion and PjBL 3nx 50 minutes	Presentation, Discussion and PjBL 3 x 50 minutes	Material: Final conclusion of research References:	7%

15	Present a qualitative or mixed method research proposal that is complete and feasible as a dissertation research proposal	Able to revise a complete and feasible qualitative or mixed method research proposal	Criteria: 1.Attached 2.7 Form of Assessment Project Results Assessment / Product Assessment	Presentation, Discussion and PjBL 3 x 50 minutes	Material: Systematics and description of a qualitative naturalistic research proposal . References: Material: Educational research References: Gay, LR, Mills, GE, & Airasian, P. 2012. Educational Research. Boston: Pearson Material: Qualitative research design References: Packer, Martin. 2011. The Science of Qualitative Research. New York: Cambridge Univ. Press Material: Qualitative research design and mixed methods References: Creshwell, John W. 2013. Qualitative Inquiry & Research Design. New Delhi: Sage	0%
16	Final Capabilities from TM-9 to TM-15	The proposals submitted are complete, feasible, and have novelty value	Criteria: 1.Score 4 if the research proposal is complete, feasible, and has novelty value 2.Score 3 if the research proposal is complete and feasible, but has no novelty value 3.Score 2 if the research proposal is feasible but incomplete and has no novelty value 4.Score 1 if the research proposal is not feasible Form of Assessment : Project Results Assessment / Product Assessment	Submission of research proposals 3 x 50 minutes	Material: Learning topics from TM-9 to TM- 15 Library:	5%

Evaluation Percentage Recap: Project Based Learning

No	Evaluation	Percentage
1.	Participatory Activities	14%
2.	Project Results Assessment / Product Assessment	76%
3.	Portfolio Assessment	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.
- 5. Indicators for assessing ability in the process and student learning outcomes are specific and measurable statements that identify the ability or performance of student learning outcomes accompanied by evidence.
- 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.