Universitas Negeri Surabaya Faculty of Education, Educational Technology Undergraduate Study Program

Document Code

			SEN	/IES	STI	ER	LE	AF	RN	ING	βP	L	AN							
Courses			CODE			C	Cours	se Fai	mily		Cr	edi	t Wei	ght	:	SEME	STER	Cor	npilati e	on
Research me	thodology		8620303186	i				ulsory am Su			Т=	3	P=0	ECTS=4	1.77	4	1	Jan 202	uary 2	5,
AUTHORIZAT	TION		SP Develop	er						Cou	rse C	lus	ter Co	ordinat	or	Study	Progra	am Co	ordina	itor
			Dr.Fajar Aria	anto, I	M.Pd					Prof.	. Dr. F	Rusi	jono,	M.Pd.		Dr. Utari Dewi, S.Sn., M.P			⊃d.	
Learning model	Project Based Le	earning	g							I					I					
Program	PLO study prog	gram v	vhich is ch	arge	d to t	he c	ours	е												
Learning Outcomes	Program Object	tives (PO)																	
(PLO)	PO - 1		o demonstra sional and re					al and	l inno	vative	e attit	ude	in lea	arning e	ducati	onal te	echnolo	gy sc	ience i	in a
	PO - 2	Able t Develo	to apply the oper, Educat	edud ion a	cation nd Tra	nal te aining	chno g Ana	logy l lyst, a	know and M	ledge Iultime	need edia/ <i>P</i>	ded Anin	to ca	irry out Broadca	duties ast Te	s as a acher	Learr	ning To	echnol	ogy
	PO - 3		o design and ld of educati					indep	ende	ntly o	r in g	rou	ps to	provide	altern	ative s	olution	s to pr	oblem	s in
	PO - 4		Able to produce outcomes in the form of high performance and commitment as a duty as a Learning Techno Developer, Education and Training Analyst, and Multimedia/Animation/Broadcast Teacher									echnol	ogy							
	PLO-PO Matrix	-PO Matrix																		
			P.O PO-1 PO-2 PO-3 PO-4																	
	PO Matrix at the	e end	of each lea	rninç	j sta	ge (S	Sub-F	PO)												
			P.O									We	eek							
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
		РО)-1																	
		РО)-2																	
		РО)-3																	
		РО)-4																	
Short Course Description	This course exar educational resea techniques, data of and preparing pro	arch st collectio	teps and pro on methods,	ocedi. instrı	ıres i ımen	incluc	ding:	formu	ılatior	n, hyp	oothe	sis,	resea	arch var	iables	, rese	arch d	esign,	samp	ling
References	Main :																			
	 Sugiyono Sudaryon W. Gulo. 	no. (201	18). Metodolo	ogi Pe	eneliti	an. J	akarta	a: PT	Raja	Grafin	ido Pe	ersa	da (B		3)					

4. Saifuddin Azwar. (2013). Metode Penelitian. Yogyakarta: Pustaka Pelajar Yogyakarta. (BW 5)

L.R. Gay, Geoffrey E. Mills; Peter Airasian (2012) Educational research: competencies for analysis and applications. Pearson Merrill Prentice Hall: New Jersey

	Supporters:			
Supporting lecturer	Prof. Dr. Rusijono, M.P Dr. Hari Sugiharto Sety Dr. Fajar Arianto, S.Pd	Pd. yaedhi, M.Si. I., M.Pd.		
			Help Learning	

Week-	Final abilities of each learning stage	Ev	aluation	Lear Stude	elp Learning, rning methods, ent Assignments, stimated time]	Learning materials [References	Assessment Weight (%)
	(Sub-PO)	Indicator	Criteria & Form	Offline (offline)	Online (online)]	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	Basic understanding and basic concepts of research	1.summarize the basic concepts of scientific methods in research 2.apply the stages of the scientific method in research 3.distinguish deductive and inductive approaches in the scientific method	Criteria: 1.Accuracy in the basic concepts of scientific methods in research 2.accuracy in applying the stages of the scientific method in research 3.the accuracy of distinguishing deductive and inductive approaches in the scientific method Form of Assessment: Participatory Activities	guided inquiry 3 X 50		Material: Basics and basic concepts of research Reader: Sugiyono. (2019). Educational Research Methods. Alfabeta, Bandung (BW 1) Material: basic research concepts References: LR Gay, Geoffrey E. Mills; Peter Airasian (2012) Educational research: competencies for analysis and applications. Pearson Merill Prentice Hall: New Jersey	5%

				I I	
2	Selection and	1.	Criteria:	Problem	Material: 5%
]	defining research topics	Determining	1.Accuracy in	Based	Problem
	ισρισσ	problems in	determining	Learning	Formulation
		research	problems in	3 X 50	Reader:
		2.Determine	research		Sugiyono.
		the solution	2.Accuracy in		(2019).
		to the	determining		Educational
		research	research problem		Research
		problem	solving		Methods.
		3.determining	3.Accuracy of		Alfabeta,
		variables in	determining		Bandung (BW
		educational	variables in		1)
		research	educational		
		4.determine	research		Material:
			4.Accuracy in		Problem
		the	,		Formulation
		rationality of	•		Reader:
		the	rationality of the		Saifuddin
		relationship	relationship		Azwar.
		between	between		(2013). Research
		research	research		methods.
		variables	variables		Yogyakarta:
		5.determine	The accuracy of		Yogyakarta Yogyakarta
		the	determining the		Student
		formulation	research problem		Library. (BW
		of the	formulation		5)
		research	based on the		5)
		problem	background of		Material:
		based on	the problem		Research
		the			variables
		background	Form of Assessment		References:
		of the	<u> </u>		LR Gay,
		problem	Project Results		Geoffrey E.
		•	Assessment / Product		Mills; Peter
			Assessment		Airasian
					(2012)
					Educational
					research:
					competencies
					for analysis
					and
					applications.
					Pearson
					Merrill
					Prentice Hall:
					New Jersey

3	· Formulate research problems	Formulation of research problems from students	Criteria: Accuracy of students' formulation of research problems Form of Assessment: Project Results Assessment / Product Assessment, Portfolio Assessment	Direct/online learning using presentation methods, giving examples, questions and answers and individual assignments in a structured and independent manner. 3 X 50	F F F S A (() F F F S A () F F F F F S A () F F F F F S A () F F F F F F F S A () F F F F F F F F F F F F F F F F F F	Material: Problem Formulation Reader: Sugiyono. 2019). Educational Research Methods. Alfabeta, Bandung (BW L) Material: Problem Formulation Reader: Saifuddin Azwar. 2013). Research methods. Yogyakarta: Yogyakarta: Yogyakarta: Hogyakarta: Jogyakarta: Jogyaka	5%
					а <i>F</i> Л	applications.	

		I				
4	able to review literature appropriate to the problem	1.able to identify primary and secondary literature 2.able to determine the main points from the source that are appropriate to the research variables 3.able to develop a theoretical study framework based on primary and secondary literature	Criteria: 1.Accuracy of identifying primary and secondary literature 2.able to determine the main points from the source that correspond to the research variables correctly 3.able to develop a theoretical study framework based on the latest primary and secondary literature Form of Assessment: Project Results Assessment / Product Assessment, Portfolio Assessment	discovery learning 3 X 50	Material: Aims and benefits of research Reader: Sugiyono. (2019). Educational Research Methods. Alfabeta, Bandung (BW 1) Material: Aims and benefits of research Reader: Sudaryono. (2018). Research Reader: Sudaryono. (2018). Research methodology. Jakarta: PT RajaGrafindo Persada (BW 2) Material: review literature Bibliography: LR Gay, Geoffrey E. Mills; Peter Airasian (2012) Educational research: competencies for analysis and applications. Pearson Merill Prentice Hall: New Jersey	10%

	alala da mardano		a		1		221
5	able to review literature	1.able to	Criteria:	discovery learning		aterial: ms and	0%
	appropriate to the	identify	1.Accuracy of	3 X 50		nefits of	
	problem	primary and	identifying	3 X 30		search	
		secondary	primary and		1	eader:	
		literature	secondary				
		2.able to	literature			igiyono.	
		determine	able to determine			019).	
		the main	the main points			lucational	
		points from	from the source			esearch	
		the source	that correspond			ethods.	
		that are	to the research			fabeta, andung (BW	
		appropriate	variables			٠, ٠	
		to the	correctly		1)		
			3.able to develop a				
		research				aterial:	
		variables	theoretical study framework based			ms and	
		3.able to				nefits of	
		develop a	on the latest			search	
		theoretical	primary and			eader:	
		study	secondary			idaryono.	
		framework	literature		1 .	018).	
		based on				esearch	
		primary and	Form of Assessment			ethodology.	
		secondary	1			karta: PT	
		literature	Portfolio Assessment			ajaGrafindo	
						ersada (BW	
					2)		
					Ma	aterial:	
					rev	view	
					lite	erature	
					Bi	bliography:	
						R Gay,	
						eoffrey E.	
						lls; Peter	
						rasian	
						012)	
					Ea	lucational	
					res	search:	
						mpetencies	
						r analysis	
					an		
						plications.	
						earson	
						errill	
						entice Hall:	
	1				No	ew Jersey	

6	able to determine research hypotheses	1.able to determine quantitative research variables 2.able to determine qualitative research variables 3.able to formulate research hypotheses based on the type of research	Criteria: 1.able to determine quantitative research variables correctly 2.able to determine qualitative research variables correctly 3.able to formulate research hypotheses based on the type of research correctly Form of Assessment: Portfolio Assessment	inquiry learning 3 X 50	Material: Aims and benefits of research Reader: Sugiyono. (2019). Educational Research Methods. Alfabeta, Bandung (BM 1) Material: Aims and benefits of research Reader: Sudaryono. (2018). Research methodology. Jakarta: PT RajaGrafindo Persada (BW 2) Material: review literature Bibliography LR Gay, Geoffrey E. Mills; Peter Airasian (2012) Educational research: competencies for analysis and applications. Pearson Merrill Prentice Hall: New Jersey	
7	able to formulate research plans	1.able to determine research problems 2.able to prepare a research proposal framework	Criteria: 1.accuracy in determining research problems based on scientific studies 2.able to prepare a research proposal framework in accordance with research guidelines Form of Assessment: Project Results Assessment / Product Assessment	project based learning 3 X 50	Material: Research design formulation Reader: Sugiyono. (2019). Educational Research Methods. Alfabeta, Bandung (BW 1) Material: Research design formulation Reader: Saifuddin Azwar. (2013). Research methods. Yogyakarta: Yogyakarta Student Library. (BW 5) Material: research framework Reference: W. Gulo. (2002). Research methodology. Jakarta: Gramedia Widiasarana Indonesia. (BW 3)	

8	UTS	Understanding of research design	Criteria:	3 X 50	-		5%
9	1.able to determine research instruments based on research variables 2.able to develop research instruments that suit research variables 3.able to assess the validity and reliability of research instruments	1.able to determine the type of research instrument that is appropriate to the research variables 2.able to develop research instruments that suit research variables 3.able to calculate the validity of research instruments according to their type 4.able to determine the reliability of research instruments instruments according to their type 4.able to determine the reliability of research instruments	Criteria: 1.able to develop research instruments that suit research variables appropriately 2.able to assess the validity of instruments that have been developed according to the type of validity 3.able to determine the reliability of research instruments correctly Form of Assessment: Project Results Assessment / Product Assessment	project based learning 3 X 50		Material: Research Approach Literature: Sugiyono. (2019). Educational Research Methods. Alfabeta, Bandung (BW 1) Material: Library Research Type : Saifuddin Azwar. (2013). Research methods. Yogyakarta: Yogyakarta: Yogyakarta: Student Library. (BW 5) Material: research instruments Bibliography: LR Gay, Geoffrey E. Mills; Peter Airasian (2012) Educational research: competencies for analysis and applications. Pearson Merrill Prentice Hall: New Jersey	10%
10	1.able to determine the type of research that suits the problem 2.able to identify quantitative research methods 3.able to identify qualitative research methods 4.able to identify research and development methods	able to determine the type of research that suits the problems, variables and research objectives	Criteria: able to determine the type of research that suits the problems, variables and research objectives appropriately Form of Assessment: Project Results Assessment / Product Assessment, Portfolio Assessment	inquiry learning 3 X 50		Material: Research Approach Literature: Sudaryono. (2018). Research methodology. Jakarta: PT RajaGrafindo Persada (BW 2) Material: Types of Library Research: W. Gulo. (2002). Research methodology. Jakarta: Gramedia Widiasarana Indonesia. (BW 3)	5%

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11	1.able to determine the type of research that suits the problem 2.able to identify quantitative research methods 3.able to identify qualitative research methods 4.able to identify research and development methods	able to determine the type of research that suits the problems, variables and research objectives	Criteria: able to determine the type of research that suits the problems, variables and research objectives appropriately Form of Assessment: Project Results Assessment / Product Assessment, Portfolio Assessment	inquiry learning 3 X 50	Material: Research Approach Literature: Sudaryono. (2018). Research methodolog Jakarta: PT RajaGrafine Persada (B 2) Material: Types of Library Research methodolog Jakarta: Gramedia Widiasaran Indonesia. (BW 3)	gy. do W W. 2).
12	1.able to determine the type of research that suits the problem 2.able to identify quantitative research methods 3.able to identify qualitative research methods 4.able to identify research and development methods	able to determine the type of research that suits the problems, variables and research objectives	Criteria: able to determine the type of research that suits the problems, variables and research objectives appropriately Form of Assessment: Project Results Assessment / Product Assessment, Portfolio Assessment	inquiry learning 3 X 50	Material: Research Approach Literature: Sudaryono. (2018). Research methodolog Jakarta: PT RajaGrafine Persada (B 2) Material: Types of Library Research: Gulo. (2002 Research methodolog Jakarta: Gramedia Widiasaran Indonesia. (BW 3)	gy. do W W. 2).

13	1.able to develop	able to develop	Criteria:	project	Material:	35%
-	research	research '	1.Accuracy of	based	Interpretation	
		proposals that	interpretation of	learning	of data	
	proposals that	suit the type of		3 X 50	analysis	
	are appropriate	research	data analysis	0 70 00	results	
	to the type of	appropriately	results		Reader:	
	research		2.able to formulate		Sugiyono.	
	2.able to develop		the research		(2019).	
	research		background			
	proposals in		accurately		Educational Research	
	accordance		3.able to determine			
	with the		the research		Methods.	
	structure of		hypothesis		Alfabeta,	
			correctly		Bandung (BW	
	scientific writing		4.able to develop		1)	
	3.able to		•			
	formulate		theoretical		Material:	
	research		studies based on		interpretation	
	background		research		of data	
	4.able to		variables with the		analysis	
	formulate		latest primary		results	
	research		and secondary		Reader:	
	objectives		literature		Saifuddin	
	5.able to		5.able to develop		Azwar.	
	determine		appropriate		(2013).	
			research		Research	
	research		methods		methods.	
	hypotheses		methods		Yogyakarta:	
	6.able to develop		F		Yogyakarta	
	research		Form of Assessment		Student	
	theoretical		Duningst Danvilte		Library. (BW	
	studies based		Project Results Assessment / Product		5)	
	on primary and					
	secondary		Assessment			
	sources					
	7.able to					
	determine					
	research					
	methods					
	8.able to					
	determine the					
	research					
	subject					
	9.able to					
	determine					
	research					
	instruments					
	based on					
	variables					
	10.able to					
	determine the					
	type of validity					
	of research					
	instruments					
	11.able to					
	determine data					
	analysis					
	techniques					
	1					

14	1.able to develop research proposals that are appropriate to the type of research 2.able to develop research proposals in accordance with the structure of scientific writing 3.able to formulate research background 4.able to formulate research objectives 5.able to determine research hypotheses 6.able to develop research theoretical studies based on primary and secondary sources 7.able to determine research methods 8.able to determine research subject 9.able to determine research instruments based on variables 10.able to determine research instruments based on variables 10.able to determine the research instruments based on variables 11.able to determine the type of validity of research instruments 11.able to determine data	able to develop research proposals that suit the type of research appropriately	Criteria: 1.Accuracy of interpretation of data analysis results 2.able to formulate the research background accurately 3.able to determine the research hypothesis correctly 4.able to develop theoretical studies based on research variables with the latest primary and secondary literature 5.able to develop appropriate research methods Form of Assessment: Project Results Assessment / Product Assessment	project based learning 3 X 50	Material: Interpretation of data analysis results Reader: Sugiyono. (2019). Educational Research Methods. Alfabeta, Bandung (BW 1) Material: interpretation of data analysis results Reader: Saifuddin Azwar. (2013). Research methods. Yogyakarta: Yogyakarta Student Library. (BW 5)	0%
	determine data analysis techniques					

15	1.able to develop research proposals that are appropriate to the type of research 2.able to develop research proposals in accordance with the structure of scientific writing 3.able to formulate research background 4.able to formulate research objectives 5.able to determine research hypotheses 6.able to develop research theoretical studies based on primary and secondary sources 7.able to determine research methods 8.able to determine the research subject 9.able to determine the research instruments based on variables 10.able to determine the type of validity of research instruments 11.able to determine data	able to develop research proposals that suit the type of research appropriately	Criteria: 1.Accuracy of interpretation of data analysis results 2.able to formulate the research background accurately 3.able to determine the research hypothesis correctly 4.able to develop theoretical studies based on research variables with the latest primary and secondary literature 5.able to develop appropriate research methods Form of Assessment: Project Results Assessment / Product Assessment	project based learning 3 X 50		Material: Interpretation of data analysis results Reader: Sugiyono. (2019). Educational Research Methods. Alfabeta, Bandung (BW 1) Material: interpretation of data analysis results Reader: Saifuddin Azwar. (2013). Research methods. Yogyakarta: Yogyakarta Student Library. (BW 5)	0%
16		Understanding of research ethics	Criteria:	Project Based Learning 3 X 50	-		5%
				3 \ 30			

Evaluation Percentage Recap: Project Based Learning

No	Evaluation	Percentage	
1.	Participatory Activities	5%	
2.	Project Results Assessment / Product Assessment	75%	
3.	Portfolio Assessment	20%	
		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.
 The PLO imposed on courses are several learning outcomes of study program graduates (CPL-Study Program) which
- 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** 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.
- 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%.
- ${\bf 12.}\ \ {\bf TM}\text{=}{\bf Face}\ to\ face,\ {\bf PT}\text{=}{\bf Structured}\ assignments,\ {\bf BM}\text{=}{\bf Independent}\ study.$