

Universitas Negeri Surabaya Vocational Faculty, D4 Mechanical Engineering Study Program

Document Code

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Courses				COL	ÞΕ				Со	urs	e Fa	mily		(Cred	dit W	eight		SEN	MESTER		Compilation Date			
Research	n me	thodology		2130	02020	39								-	T=2	P=0	EC	TS=3.18		5	J	uly 17, 2024			
AUTHOR	IZAT	ION		SP I	Develo	ope	r						Cou	rse	Clu	ster	Coor	dinator	Stud	dy Prog ordinato	jran or	ram r			
																			Arya			ndra Sakti, S.T., VI.T.			
Learning model		Case Studies																							
Program Learning		PLO study pro	ogra	m wh	ich is	ch	arge	d to	the o	cou	rse														
Outcome (PLO)		Program Obje	ctive	es (PC	0)																				
(PLO)		PLO-PO Matri	х																						
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		PO Matrix at t	he e	nd of	each	lea	rning	g sta	ge (Suk	-PO))													
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Short Course Descript	ion	This course tead for finding scientesearch approa- findings to exp population-sample reports, thesis e	ntific aches lainir oles,	truth s start ng pro develo	using ing fro oblems oping	sciom s, fo mea	entific recog ormul asurir	pring prizinating ating	ciple g, lir hyp strum	es. S mitin ooth nents	Scier Ig ar eses s, da	ntific nd for and ata co	metho mulat desi llectio	odo ting igni on-a	logy pro ng analy	take blem: verific	s the s, stu ation echnic	form o dying th methoo ques, ar	f quai eoretid Is sta Id rep	ntitative cal refe arting fro orting re	an rend om esul	d qualitative ces-scientific determining			
Reference	ces	Main :																							
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		Supporters:																							
Supporti lecturer	ing	Dr. Warju, S.Pd. Firman Yasa Uta Ferly Isnomo Ab	áma,	Ś.Pd.	, M.T.	1.T.																			
Week-	eac				E	valı	uatio	n					Le Stud	arn den	ing It As	earnir meth signi ted ti	ods, nents	5,	ma	arning aterials [erences		Assessment Weight (%)			
	(Su	b-PO)	lı	ndicat	or		Crit	eria &	k Fo	rm			ine (ine)		O	nline	(on	line)]					
(1)		(2)		(3)				(4)				(;	5)				(6)			(7)	(8)				

1	Students can find out the material that will be studied in the Research Methodology course, and lecture contracts such as: rules and regulations, and assessment	Can find out the material that will be studied in the Research Methodology course, and lecture contracts such as: rules and regulations, and assessment	Criteria: 1.Draft research proposal: 2.a. The sharpness of the problem formulation prepared 3.b. Completeness of the proposal includes: introduction, literature review, and research methods 4.c. Format compatibility	Lectures and questions and answers 2 X 50		0%
2	Students can explain the essence of research	Can explain the essence of research	Criteria: Conformity with the concept of the essence of research	Lectures, questions and answers, discussions and practice 2 X 50		0%
3	Students can implement knowledge about types of research in the research proposal design section	Can implement knowledge about types of research in the research proposal design section	Criteria: 1.Structured tasks: 2.a. Sharpness 3.b. Completeness 4.c. Format compatibility	Lectures, questions and answers, discussions and practice 2 X 50		0%
4	Students can implement knowledge about research design in the research proposal design section	Can implement knowledge about research design in the design part of a research proposal	Criteria: 1.Structured tasks: 2.a. Sharpness 3.b. Completeness 4.c. Format compatibility	Lectures, questions and answers, discussions and practice 2 X 50		0%
5	Students can implement knowledge about library studies in the research proposal design section	Can implement knowledge about library studies in the research proposal design section	Criteria: 1.Structured tasks: 2.a. Sharpness 3.b. Completeness 4.c. Format compatibility	Lectures, questions and answers, discussions and practice 2 X 50		0%
6	Students can implement knowledge about problem formulation in the research proposal design section	Can implement knowledge about problem formulation in the research proposal design section	Criteria: 1.Structured tasks: 2.a. Sharpness 3.b. Completeness 4.c. Format compatibility	Lectures, questions and answers, discussions and practice 2 X 50		0%
7	Students can implement knowledge about variables and measurement techniques in the research proposal design section	Can implement knowledge about variables and measurement techniques in the design part of a research proposal	Criteria: 1.Structured tasks: 2.a. Sharpness 3.b. Completeness 4.c. Format compatibility	Lectures, questions and answers, discussions and practice 2 X 50		0%
8	Students can compile the background of the problem, identify the problem, and formulate the problem	Can prepare problem background, problem identification, and problem formulation	Criteria: 1.Take home: 2.a. Preliminary equipment includes: problem background, problem identification, and problem formulation 3.b. Format compatibility	Take home examination 2 X 50		0%

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9	Students can implement knowledge about formulating and testing hypotheses in the research proposal design section	Can implement knowledge about formulating and testing hypotheses in the design part of a research proposal	Criteria: 1.Structured tasks: 2.a. Sharpness 3.b. Completeness 4.c. Format compatibility	Lectures, questions and answers, discussions and practice 2 X 50			0%
10	Students can implement knowledge about data collection in the research proposal design section	Can implement knowledge about data collection in the design part of a research proposal	Criteria: 1.Structured tasks: 2.a. Sharpness 3.b. Completeness 4.c. Format compatibility	Lectures, questions and answers, discussions and practice 2 X 50			0%
11	Students can implement knowledge about experimental design in the design part of a research proposal	Can implement knowledge about experimental design in the design part of a research proposal	Criteria: 1.Structured tasks: 2.a. Sharpness 3.b. Completeness 4.c. Format compatibility	Lectures, questions and answers, discussions and practice 2 X 50			0%
12	Students can implement knowledge about sampling techniques in the research proposal design section	Can implement knowledge about sampling techniques in the design part of a research proposal	Criteria: 1.Structured tasks: 2.a. Sharpness 3.b. Completeness 4.c. Format compatibility	Lectures, questions and answers, discussions and practice 2 X 50			0%
13	Students can implement knowledge about sampling techniques in the research proposal design section	Can implement knowledge about sampling techniques in the design part of a research proposal	Criteria: 1.Structured tasks: 2.a. Sharpness 3.b. Completeness 4.c. Format compatibility	Lectures, questions and answers, discussions and practice 2 X 50			0%
14	Students can implement knowledge about data analysis and interpretation in the research proposal design section	Can implement knowledge about data analysis and interpretation in the design part of a research proposal	Criteria: 1.Structured tasks: 2.a. Sharpness 3.b. Completeness 4.c. Format compatibility	Lectures, questions and answers, discussions and practice 2 X 50			0%
15	Students can implement knowledge about data analysis and interpretation in the research proposal design section	Can implement knowledge about data analysis and interpretation in the design part of a research proposal	Criteria: 1.Structured tasks: 2.a. Sharpness 3.b. Completeness 4.c. Format compatibility	Lectures, questions and answers, discussions and practice 2 X 50			0%
16	Students can prepare theoretical studies and research procedures	Can prepare theoretical studies and research procedures	Criteria: 1.Structured tasks: 2.a. Sharpness 3.b. Completeness 4.3. Format suitability	Take home examination 2 X 50			0%

Evaluation Percentage Recap: Case Study

No	Evaluation	Percentage
		0%

Notes
1. 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 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
- 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.
- 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%.
- 12. TM=Face to face, PT=Structured assignments, BM=Independent study.