

Universitas Negeri Surabaya Faculty of Engineering, Building Engineering Education Undergraduate Study Program

Document Code

SEMESTER LEARNING PLAN

Courses			CODE		Course	e Family		Credit Weight		SEMESTER	Compilation Date		
RESEARCH METHODOLOGY			8320503288				T=3 P=0 ECTS=4.77			ECTS=4.77	4	July 17, 2024	
AUTHOR	RIZATION			SP Developer				Cours	e Clu	ster C	oordinator	Study Progr Coordinator	
			Dr. Nurmi Frida Dorintan Bertua Pakpahan, M.Pd						Dr. Gde Agus Yudha Prawira Adistana, S.T., M.T.				
Learning model	j Pro	oject Based	l Learni	ing									
Program		O study pi	rogram	n which is cha	rged to the co	ourse							
Learning Outcom		ogram Obj	ectives	s (PO)									
(PLO)	PO	- 1	prepar	o understand th ing research pr endent, high-qua e.	oposals based	on the	principle	of nove	lty in	the fie	ld of building	engineering	education with
	PL	O-PO Matr	rix										
				P.O									
				PO-1									
	PO	Matrix at	the en	d of each lear	ning stage (S	ub-PO)							
			·										
				P.0					Week				
				1	2 3	4 5	6	7 8	9	10	11 12	13 14	15 16
			PO	-1									
Short Course Descript	tion ber	earch steps nefits, assun nples, data	s which nptions collecti	ists of the relatio include prepari and developme ion methods an and compiling ab	ng the backgro nt of theoretical d development	ound of t I studies, t of data	he prob formula collectio	lem, forr tion of hy	nulatio pothes	n of tl æs, typ	ne problem, f bes and desig	ormulation of n of research,	objectives and population and
Referen	ces Ma	Main :											
2. Tuckman, Br 3. Sevilla, Cons 4. Sugiyono. 20		nan, Bru a, Consu ono. 201	ikunto. 2015. Prosedur Penelitian (Suatu Pendekatan Praktek). Jakarta: Rineka Cipta. uce W. 1978. Conducting Educational Research . NewYork: Harcourt Brace Jovanovich Pub suelo G., dkk., 1993. Pengantar Metode Penelitian, terjemahan Alimudin Tuwu. Jakarta: Universitas Indonesia 11. Metode Penelitian Kombinasi . Bandung: Penerbit Alfabeta. 5. Desain dan Analisis Eksperimen . Bandung: Tarsito.										
	Su	pporters:											
1. Pakpahan, Nurmi Frida D.B., 2					2021. Modul Me	etodologi	Peneliti	an Seri: F	enelita	an Tino	lakan Kelas, S	Surabaya	
Supporting lecturer Dr. Nurmi Frida Dorint Prof. Dr. Suparji, S.Pd Wahyu Dwi Mulyono,		rji, S.Pd	l., M.Pd.										
Week-	each le stage	nal abilities of ach learning age sub-PO)		Evaluation				Help Learning, Learning methods, Student Assignments, [Estimated time]		ds, ents, ne]	Learning materials [References]	Assessment Weight (%)	
				Indicator	Criteria a	∝ ⊢orm		ffline(ffline)		Jinne	(online)	-	
(1)	((2)		(3)	(4))		(5)			(6)	(7)	(8)

1	Students are able to explain the meaning and steps in scientific research in building engineering education	 Explain the definition of scientific research Describe deductive and inductive thinking as well as scientific approaches in research as the attitude of a researcher Identify the characteristics of scientific research in education Describe the steps or procedures in research Identify the systematics of research proposals and reports Describing the various issues and problems in building engineering education that are currently developing is 	Form of Assessment Participatory Activities	Learning: Direct and cooperative, questions and answers, discussions, exercises, assignments 3 x 50'		0%
2	Students are able to choose building engineering education problems that are actual and worthy of research, formulate them and create research objectives and research benefits correctly	 worth researching 1. Choose an actual research problem that is worthy of research 2. Explain in the background that the problem is important to research 3. Identify research variables and other components in research 4. Formulate the research problem that has been chosen correctly 5. Formulate research benefits correctly 6. Prepare an introduction for a thesis proposal including the background of the problem, problem formulation, research objectives and research benefits. 	Form of Assessment Participatory Activities, Project Results Assessment / Product Assessment	Learning: Project Based Learning (assignment) 3x 50'	Material: Sevilla, Consuelo G., et al., 1993. Introduction to Research Methods, translated by Alimudin Tuwu. Jakarta: University of Indonesia Library:	0%

3	Students can	1.Choose an actual	-	Learning:	Material:	0%
	prepare Chapter 1: introduction to a thesis proposal including: background of the problem formulation, research objectives and benefits of the research.	research problem that is worthy of research 2.Explain in the background that the problem is important to research 3.Identify research variables and other components in research 4.Formulate the research problem that has been chosen correctly 5.Formulate research benefits correctly 6.Prepare an introduction for a thesis proposal including the background of the problem, problem formulation, research benefits.	Form of Assessment Participatory Activities, Project Results Assessment / Product Assessment	Project Based Learning (assignment) 3x 50'	Sevilla, Consuelo G., et al., 1993. Introduction to Research Methods, translated by Alimudin Tuwu. Jakarta: University of Indonesia Library:	
4	Students are able to carry out literature reviews using accurate and relevant library sources to produce correct hypotheses	 Define the meaning of literature review and why literature review is important Identify the characteristics and uses of theory as well as steps in reviewing the literature Explain the meaning of plagiarism, preventing plagiarism, and the consequences of plagiarism, and the consequences of plagiarism Select research that is relevant to the research to be carried out Formulate research hypotheses correctly based on the framework that has been developed previously 	Form of Assessment Participatory Activities	Lecture (TM: 3x 50'); Learning: Project Based Learning (assignment)	Material: Sevilla, Consuelo G., et al., 1993. Introduction to Research Methods, translated by Alimudin Tuwu. Jakarta: University of Indonesia Library:	0%

5	Students can prepare Chapter 2: literature review for a thesis proposal including: theoretical studies along with conceptual definitions for each variable, relevant research,	 Define the meaning of literature review and why literature review is important Identify the characteristics and uses of theory as well as steps in reviewing 	Form of Assessment : Participatory Activities	Lecture (TM: 3x 50'); Learning: Project Based Learning (assignment)	Material: Sevilla, Consuelo G., et al., 1993. Introduction to Research Methods, translated by Alimudin Tuwu.	0%
	framework and hypotheses that are in accordance with applicable principles	 steps in reviewing the literature 3. Explain the meaning of plagiarism, preventing plagiarism, and the consequences of plagiarism 4. Select research that is relevant to the research to be carried out 5. Formulate research hypotheses correctly based on the framework that has been developed previously 6. Compiling Chapter 2: literature review for a thesis proposal including: theoretical studies along with conceptual definitions for each variable, relevant research, framework and hypotheses that are in accordance with applicable principles 			Jakarta: University of Indonesia Library:	
6	Students are able to differentiate between types of educational research methods and designs and are able to explain the steps in analyzing the data	 Define types of educational research methods and designs Identify the characteristics of research methods and designs Determining potential feasible issues in educational research designs Describe the steps in implementing educational research methods and designs 	Form of Assessment : Participatory Activities, Portfolio Assessment	Lecture (TM: 3x 50'); Learning: Project Based Learning (assignment)		0%
7		 Mention the steps in data collection techniques Identify how to select a population/sample or respondents in research Determine, select, and assess instruments used in data collection Describe the procedures in a data collection setting 	Form of Assessment : Participatory Activities, Portfolio Assessment	Lecture (TM: 3x 50'); Learning: Project Based Learning (assignment)		0%

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8	Midterm exam		Criteria: 1.Assessments carried out on aspects of attitudes, knowledge and skills include: 2.Participation (weight 2): student activity during lectures through observation 3.Assignments (weight 3): through individual and group assignments. Values are averaged 4.UTS/ Subsummative Test (weight 2): to access all indicators during the half semester through written exams 5.UAS/ Summative Test (weight 3): carried out according to schedule and in writing Form of Assessment : Test	Written Exam (3x 50')			0%
9	Students are able to analyze data and interpret it and make conclusions from the results of their research	 Identify the steps in analyzing and interpreting data Explain the process of preparing data to be analyzed Describe how to interpret data analyst results Describe the research results and draw conclusions 	Form of Assessment : Participatory Activities, Portfolio Assessment	Lecture (TM: 3x 50'); Learning: Project Based Learning (assignment)			0%
10	Students are able to prepare a thesis proposal including Chapter 1, Chapter 2 and Chapter 3 as well as a bibliography based on the thesis preparation guide at Unesa and present it	 Prepare a research proposal according to the thesis proposal format based on the guidelines for preparing a thesis (scientific work) at Unesa Prepare proposals using systematics and writing procedures in accordance with the guidelines Demonstrate mastery in preparing a thesis proposal that complies with the provisions Demonstrate good ability in presenting a thesis proposal 	Form of Assessment Participatory Activities, Project Results Assessment / Product Assessment	Lecture (TM: 3x 50'); Learning: Project Based Learning (assignment)			0%

11	Students are able to prepare a thesis proposal including Chapter 1, Chapter 2 and Chapter 3 as well as a bibliography based on the thesis preparation guide at Unesa and present it	 Demonstrate mastery in preparing a thesis proposal that complies with the provisions of the thesis preparation guidelines at Unesa Demonstrate good ability in presenting a thesis proposal 	Form of Assessment : Participatory Activities	Lecture (TM: 3x 50'); Learning: Project Based Learning (assignment).		0%
12	Students are able to prepare a thesis proposal including Chapter 1, Chapter 2 and Chapter 3 as well as a bibliography based on the thesis preparation guide at Unesa and present it	 Demonstrate mastery in preparing a thesis proposal that complies with the provisions of the thesis preparation guidelines at Unesa Demonstrate good ability in presenting a thesis proposal 	Form of Assessment : Participatory Activities	Lecture (TM: 3x 50'); Learning: Project Based Learning (assignment).		0%
13	Students are able to prepare a thesis proposal including Chapter 1, Chapter 2 and Chapter 3 as well as a bibliography based on the thesis preparation guide at Unesa and present it	 Demonstrate mastery in preparing a thesis proposal that complies with the provisions of the thesis preparation guidelines at Unesa Demonstrate good ability in presenting a thesis proposal 	Form of Assessment : Participatory Activities	Lecture (TM: 3x 50'); Learning: Project Based Learning (assignment).		0%
14	Students are able to prepare a thesis proposal including Chapter 1, Chapter 2 and Chapter 3 as well as a bibliography based on the thesis preparation guide at Unesa and present it	 Demonstrate mastery in preparing a thesis proposal that complies with the provisions of the thesis preparation guidelines at Unesa Demonstrate good ability in presenting a thesis proposal 	Form of Assessment : Participatory Activities	Lecture (TM: 3x 50'); Learning: Project Based Learning (assignment).		0%
15	Students are able to prepare a thesis proposal including Chapter 1, Chapter 2 and Chapter 3 as well as a bibliography based on the thesis preparation guide at Unesa and present it	 Demonstrate mastery in preparing a thesis proposal that complies with the provisions of the thesis preparation guidelines at Unesa Demonstrate good ability in presenting a thesis proposal 	Form of Assessment : Participatory Activities	Lecture (TM: 3x 50'); Learning: Project Based Learning (assignment).		0%

10				
16	Criteria:	Written Exam		0%
	1.Assessments	(3x 50')		
	carried out on			
	aspects of			
	attitudes,			
	knowledge and			
	skills include:			
	2.Participation			
	(weight 2):			
	student activity			
	during lectures			
	through			
	observation			
	3.Assignments			
	(weight 3):			
	through individual			
	and group			
	assignments.			
	Values are			
	averaged			
	4.UTS/			
	Subsummative			
	Test (weight 2): to			
	access all			
	indicators during			
	the half semester			
	through written			
	exams			
	5.UAS/ Summative			
	Test (weight 3):			
	carried out			
	according to			
	schedule and in			
	writing			
	6.Final Grade (NA):			
	(participation			
	grade x2)			
	(nassignment			
	grade x 3) (UTS			
	grade x 2) (UAS			
	grade x 2) (OAS grade x 3) divided			
	by 10			
	by 10			

Evaluation Percentage Recap: Project Based Learning
No Evaluation Percentage

0%

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.
- 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.