



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

Document Code

SEMESTER LEARNING PLAN

Courses	CODE	Course Family	Credit Weight	SEMESTER	Compilation Date																																	
Research methodology	8321303065		T=3 P=0 ECTS=4.77	5	July 17, 2024																																	
AUTHORIZATION	SP Developer		Course Cluster Coordinator		Study Program Coordinator																																	
		Nia Kusstianti, S.Pd., M.Pd.																																	
Learning model	Project Based Learning																																					
Program Learning Outcomes (PLO)	PLO study program that is charged to the course																																					
	Program Objectives (PO)																																					
	PLO-PO Matrix																																					
		<table border="1" style="margin: auto;"> <tr> <td style="width: 10%;">P.O</td> <td colspan="16"></td> </tr> </table>					P.O																															
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	PO Matrix at the end of each learning stage (Sub-PO)																																					
	<table border="1" style="margin: auto;"> <tr> <td rowspan="2" style="width: 5%;">P.O</td> <td colspan="16" style="text-align: center;">Week</td> </tr> <tr> <td style="width: 5%;">1</td> <td style="width: 5%;">2</td> <td style="width: 5%;">3</td> <td style="width: 5%;">4</td> <td style="width: 5%;">5</td> <td style="width: 5%;">6</td> <td style="width: 5%;">7</td> <td style="width: 5%;">8</td> <td style="width: 5%;">9</td> <td style="width: 5%;">10</td> <td style="width: 5%;">11</td> <td style="width: 5%;">12</td> <td style="width: 5%;">13</td> <td style="width: 5%;">14</td> <td style="width: 5%;">15</td> <td style="width: 5%;">16</td> </tr> </table>					P.O	Week																1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
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Short Course Description	Lecture material consists of the relationship between research activities in the dimensions and development of science and technology, research steps which include preparing the background of the problem, formulation of the problem, formulation of objectives and benefits, assumptions and development of theoretical studies, formulation of hypotheses, types and design of research, population and samples, data collection methods and development of data collection tools, data analysis methods, discussion of analysis results, drawing conclusions, and compiling abstracts and scientific articles.																																					
References	Main :																																					
	<ol style="list-style-type: none"> 1. Sugiyono. 2011. Metode Penelitian Kombinasi . Bandung: Penerbit Alfabeta. 2. Suharsimi Arikunto. 2015. Prosedur Penelitian (Suatu Pendekatan Praktek). Jakarta: Rineka Cipta. 3. Tuckman, Bruce W. 1978. Conducting Educational Research . NewYork: Harcourt Brace Jovanovich Pub.. 4. Sujana. 1995. Desain dan Analisis Eksperimen . Bandung: Tarsito. 																																					
	Supporters:																																					
Supporting lecturer	Dra. Dewi Lutfiati, M.Kes. Dr. Maspiyah, M.Kes. Prof.Dr. Mutimmatul Faidah, S.Ag., M.Ag.																																					
Week-	Final abilities of each learning stage (Sub-PO)	Evaluation		Help Learning, Learning methods, Student Assignments, [Estimated time]		Learning materials [References]	Assessment Weight (%)																															
		Indicator	Criteria & Form	Offline (offline)	Online (online)																																	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)																															
1	Understand the relationship between research concepts and the development of science and technology	a. Differentiate the meaning of science and technology b. Explain how to gain knowledge c. Explain the meaning of research d. Explain the steps of the scientific method e. Formulate the role of research in the development of science and technology	Criteria: Score for each question: 20	Presentation, discussion and question and answer 3 X 50			0%																															

2	Formulate problems that suit their interests and areas of expertise (1)	Formulate problems that suit their interests and areas of expertise (1)	Criteria: Each student submits a minimum of 3 good research problems that are in line with their interests and competencies.	Discussion presentation and question and answer 3 X 50			0%
3	Formulate problems that suit their interests and areas of expertise (2)	<ol style="list-style-type: none"> 1.Compile the background of the problem 2.Develop problem identification 3.Develop problem boundaries 4.Create a problem formulation 5.Create research objectives and benefits 	Criteria: <ol style="list-style-type: none"> 1.Assessment rubric Problem formulation: 2.Score 4 for problem formulation, if: 3.Formulation of the problem in the form of a question sentence Interesting and useful problem (can solve the problem) Availability of data for research In accordance with the researcher's competence Score 4 for the Objective If: The formulation of the objective is in accordance with the formulation of the problem 4.Success in formulating the background of problem identification, problem boundaries, objectives and benefits of research. 	Discussion presentation and question and answer 3 X 50			0%
4	Arrange theoretical studies according to the problem formulation	<ol style="list-style-type: none"> 1.Explain the role of theoretical studies in research 2.Identify reference sources 3.Develop a theoretical study framework by including writing quotations that are appropriate to the research problem 4.Writing a bibliography 	Criteria: Students are able to compile theoretical studies according to the research problem formulation	Discussion presentation and question and answer assignment 3 X 50			0%
5	Can formulate research hypotheses	<ol style="list-style-type: none"> 1.Explain the meaning of hypothesis 2.Understand the types of hypotheses 3.Identify errors that occur in hypothesis testing 4.Explain how to test a hypothesis 5.Analyzing the relationship between determining the level of significance and the level of acceptance of the hypothesis 6.Explains research without a hypothesis 	Criteria: Success in formulating research hypotheses	Contextual / Cooperative 3 X 50			0%

6	Understand and be able to determine the type and design of research based on the problems and/or research objectives formulated	<ol style="list-style-type: none"> 1. Identify the type of research 2. Develop research designs (for experimental and correlational research) 	Criteria: accuracy in determining the research design according to the problem formulation	Contextual/Cooperative 3 X 50			0%
7	Identify variables and formulate operational definitions of variables	<ol style="list-style-type: none"> 1. Explain the meaning of research variables 2. Identify various research variables 3. Identify the variables in the research 4. Explain the operational definition of variables 5. Operationally defining independent variables, dependent variables and control variables in experimental research 	Criteria: Accuracy in identifying research variables and making operational definitions of variables	Problem based learning 3 X 50			0%
8	Sub Summative Exam	Able to do UTS questions	Criteria: If you can answer correctly, then score 100	Essay Test 3 X 50			0%
9	Identifying problems formulating action hypotheses and designing action steps in PTK	<ol style="list-style-type: none"> 1. Defining the meaning of PTK (Classroom Action Research) 2. Formulate problems in PTK 3. Formulate an action hypothesis 4. Describe the cycle in PTK 	Criteria: If you can answer correctly then the score is 100	The task of compiling a PTK Cycle and 3 X 50 Presentations			0%
10							0%
11	Identify data collection techniques and develop data collection tools that suit the problem and/or objectives (1)	<ol style="list-style-type: none"> 1. Explain data collection techniques 2. Determine data collection tools/instruments 	Criteria: Accuracy in determining data collection instruments	3 X 50 group presentations and discussions			0%
12	Identify data collection techniques and develop data collection tools that suit the problem and/or objectives (2)	<ol style="list-style-type: none"> a. Develop data collection tools/instruments b. Explain the validity and reliability of data collection tools 	Criteria: Success in developing research instruments	Contextual/Problem based 3 X 50			0%
13	Conduct descriptive analysis both quantitative and qualitative	<ol style="list-style-type: none"> a. Explain the various types of research data analysis b. Distinguish between quantitative descriptive and qualitative descriptive data analysis c. Determine the analysis of each research data 	Criteria: Accuracy in determining research data analysis	Contextual/problem based 3 X 50			0%
14	Conduct inferential analysis (hypothesis testing)	<ol style="list-style-type: none"> a. Describe the meaning of inferential analysis b. Describe the various types of inferential analysis c. Carrying out relationship tests d. Do a different test 	Criteria: Accuracy in determining research data analysis	Contextual/Problem Based 3 X 50			0%

15	Arrange discussions on the results of data analysis, draw conclusions and provide suggestions based on research results	a. Linking the results of data analysis with theoretical studies b. Linking the results of data analysis with previous research findings c. Draw conclusions d. Formulate suggestions	Criteria: Accuracy in explaining things contained in discussions and discussion of research results.	Contextual/Problem Based 3 X 50			0%
16	Can answer the Final Semester Exam		Criteria: If you can answer the UAS questions, you will get a score of 100	3 X 50			0%

Evaluation Percentage Recap: Project Based Learning

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.
- 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.**