



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

Document Code

SEMESTER LEARNING PLAN

Courses	CODE	Course Family	Credit Weight	SEMESTER	Compilation Date																																
Body Painting and Repair Practice	8320302228		T=0 P=2 ECTS=3.18	4	July 17, 2024																																
AUTHORIZATION	SP Developer		Course Cluster Coordinator		Study Program Coordinator																																
		Ir. Wahyu Dwi Kurniawan, S.Pd., M.Pd.																																
Learning model	Case Studies																																				
Program Learning Outcomes (PLO)	PLO study program that is charged to the course																																				
	Program Objectives (PO)																																				
	PLO-PO Matrix																																				
		P.O																																			
Short Course Description	Carrying out practical activities for painting motor vehicles which includes preparation of work objects and materials, mixture composition (mixing), finishing, and management of painting costs.																																				
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td rowspan="2" style="width: 10%; text-align: center;">P.O</td> <td colspan="16" style="text-align: center;">Week</td> </tr> <tr> <td style="width: 5%; text-align: center;">1</td> <td style="width: 5%; text-align: center;">2</td> <td style="width: 5%; text-align: center;">3</td> <td style="width: 5%; text-align: center;">4</td> <td style="width: 5%; text-align: center;">5</td> <td style="width: 5%; text-align: center;">6</td> <td style="width: 5%; text-align: center;">7</td> <td style="width: 5%; text-align: center;">8</td> <td style="width: 5%; text-align: center;">9</td> <td style="width: 5%; text-align: center;">10</td> <td style="width: 5%; text-align: center;">11</td> <td style="width: 5%; text-align: center;">12</td> <td style="width: 5%; text-align: center;">13</td> <td style="width: 5%; text-align: center;">14</td> <td style="width: 5%; text-align: center;">15</td> <td style="width: 5%; text-align: center;">16</td> </tr> </table>					P.O	Week																1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
P.O	Week																																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16																					
References	Main : 1. Auto Body Repair. 1975. Duenk Urhams. Brooks · Paint Handbook. 981. Mc Graw-Hill Book Company. 2. Gunadi, M.Pd. 2011. Pengenalan Bodi Kendaraan. Yogyakarta: PT.Pustaka Insan Madani. 3. Gunadi, M.Pd. 2011. Pengecatan Ulang Bodi Kendaraan. Yogyakarta: PT.Citra Aji Parama. Supporters:																																				
Supporting lecturer	Saiful Anwar, S.Pd., M.T.																																				
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	<p>Skilled in explaining the types of paint and overall painting procedures. Skilled in preparing workpiece surfaces Skilled in painting plastic and metal components Knows the responsibilities of each individual or group jobdesk.</p>	<p>1.1. Explain the initial painting process 1.2. Develop character behavior, including: honesty, discipline, and responsibility. 1.3. Develop social skills, including: asking questions, arguing and respecting each other.</p>	<p>Criteria: Full marks are obtained if the job sheet is carried out according to the SOP. Conformity with the reporting format. Results of analysis of the painting process work that has been carried out. Results of conclusions and suggestions prepared</p>	<p>Model: Project Based Learning Method: demonstration and field work Learning Strategy: Constructivist, Field Observation, and Scientific 5M (observing, asking, collecting information, associating, communicating) 6 X 50</p>		0%
2	<p>Skilled in explaining the types of paint and overall painting procedures. Skilled in preparing workpiece surfaces Skilled in painting plastic and metal components Knows the responsibilities of each individual or group jobdesk.</p>	<p>2.1. Initial painting process 2.2. Developing character behavior, including: honesty, discipline, and responsibility 2.3 Developing social skills, including: asking questions, having opinions, and respecting each other</p>	<p>Criteria: Full marks are obtained if the job sheet is carried out according to the SOP. Conformity with the reporting format. Results of analysis of the painting process work that has been carried out. Results of conclusions and suggestions prepared</p>	<p>Model: Project Based Learning Method: demonstration and field work Learning Strategy: Constructivist, Field Observation, and Scientific 5M (observing, asking, collecting information, associating, communicating) 6 X 50</p>		0%
3	<p>1. Skilled in explaining the types of paint and the overall painting procedure. 2. Skilled in preparing the surface of work objects. 3. Knows the responsibilities of each individual or group jobdesk.</p>	<p>1. Skilled in classifying paint and its components 2. Skilled in explaining the stages of painting practice 3. Skilled in carrying out surface preparation using abrasive paper</p>	<p>Criteria: Full marks are obtained if the job sheet is carried out according to the SOP. Conformity with the reporting format. Results of analysis of the painting process work that has been carried out. Results of conclusions and suggestions prepared</p>	<p>Model: Project Based Learning Method: demonstration and field work Learning Strategy: Constructivist, Field Observation, and Scientific 5M (observing, asking, collecting information, associating, communicating) 6 X 50</p>		0%
4	<p>1. Skilled in explaining the types of paint and the overall painting procedure. 2. Skilled in preparing the surface of work objects. 3. Knows the responsibilities of each individual or group jobdesk.</p>	<p>1. Skilled in classifying paint and its components 2. Skilled in explaining the stages of painting practice 3. Skilled in carrying out surface preparation using abrasive paper</p>	<p>Criteria: Full marks are obtained if the job sheet is carried out according to the SOP. Conformity with the reporting format. Results of analysis of the painting process work that has been carried out. Results of conclusions and suggestions prepared</p>	<p>Model: Project Based Learning Method: demonstration and field work Learning Strategy: Constructivist, Field Observation, and Scientific 5M (observing, asking, collecting information, associating, communicating) 6 X 50</p>		0%

5	1. Skilled in explaining the types of paint and the overall painting procedure. 2. Skilled in preparing the surface of work objects. 3. Knows the responsibilities of each individual or group jobdesk.	1. Skilled in classifying paint and its components 2. Skilled in explaining the stages of painting practice 3. Skilled in carrying out surface preparation using abrasive paper	Criteria: Full marks are obtained if the job sheet is carried out according to the SOP. Conformity with the reporting format. Results of analysis of the painting process work that has been carried out. Results of conclusions and suggestions prepared	Model: Project Based Learning Method: demonstration and field work Learning Strategy: Constructivist, Field Observation, and Scientific 5M (observing, asking, collecting information, associating, communicating) 6 X 50		0%
6	1. Skilled in explaining the types of paint and the overall painting procedure. 2. Skilled in preparing the surface of work objects. 3. Knows the responsibilities of each individual or group jobdesk.	1. Skilled in classifying paint and its components 2. Skilled in explaining the stages of painting practice 3. Skilled in carrying out surface preparation using abrasive paper	Criteria: Full marks are obtained if the job sheet is carried out according to the SOP. Conformity with the reporting format. Results of analysis of the painting process work that has been carried out. Results of conclusions and suggestions prepared	Model: Project Based Learning Method: demonstration and field work Learning Strategy: Constructivist, Field Observation, and Scientific 5M (observing, asking, collecting information, associating, communicating) 6 X 50		0%
7	1. Skilled in explaining the types of paint and the overall painting procedure. 2. Skilled in preparing the surface of work objects. 3. Knows the responsibilities of each individual or group jobdesk.	1. Skilled in classifying paint and its components 2. Skilled in explaining the stages of painting practice 3. Skilled in carrying out surface preparation using abrasive paper	Criteria: Full marks are obtained if the job sheet is carried out according to the SOP. Conformity with the reporting format. Results of analysis of the painting process work that has been carried out. Results of conclusions and suggestions prepared	Model: Project Based Learning Method: demonstration and field work Learning Strategy: Constructivist, Field Observation, and Scientific 5M (observing, asking, collecting information, associating, communicating) 6 X 50		0%
8	1. Skilled in explaining the types of paint and the overall painting procedure. 2. Skilled in preparing the surface of work objects. 3. Knows the responsibilities of each individual or group jobdesk.	1. Skilled in classifying paint and its components 2. Skilled in explaining the stages of painting practice 3. Skilled in carrying out surface preparation using abrasive paper	Criteria: Full marks are obtained if the job sheet is carried out according to the SOP. Conformity with the reporting format. Results of analysis of the painting process work that has been carried out. Results of conclusions and suggestions prepared	Model: Project Based Learning Method: demonstration and field work Learning Strategy: Constructivist, Field Observation, and Scientific 5M (observing, asking, collecting information, associating, communicating) 6 X 50		0%

9	1. Skilled in explaining the types of paint and the overall painting procedure. 2. Skilled in preparing the surface of work objects. 3. Knows the responsibilities of each individual or group jobdesk.	1. Skilled in classifying paint and its components 2. Skilled in explaining the stages of painting practice 3. Skilled in carrying out surface preparation using abrasive paper	Criteria: Full marks are obtained if the job sheet is carried out according to the SOP. Conformity with the reporting format. Results of analysis of the painting process work that has been carried out. Results of conclusions and suggestions prepared	Model: Project Based Learning Method: demonstration and field work Learning Strategy: Constructivist, Field Observation, and Scientific 5M (observing, asking, collecting information, associating, communicating) 6 X 50			0%
10	1. Skilled in explaining the types of paint and the overall painting procedure. 2. Skilled in preparing the surface of work objects. 3. Knows the responsibilities of each individual or group jobdesk.	1. Skilled in classifying paint and its components 2. Skilled in explaining the stages of painting practice 3. Skilled in carrying out surface preparation using abrasive paper	Criteria: Full marks are obtained if the job sheet is carried out according to the SOP. Conformity with the reporting format. Results of analysis of the painting process work that has been carried out. Results of conclusions and suggestions prepared	Model: Project Based Learning Method: demonstration and field work Learning Strategy: Constructivist, Field Observation, and Scientific 5M (observing, asking, collecting information, associating, communicating) 6 X 50			0%
11	1. Skilled in explaining the types of paint and the overall painting procedure. 2. Skilled in preparing the surface of work objects. 3. Knows the responsibilities of each individual or group jobdesk.	1. Skilled in classifying paint and its components 2. Skilled in explaining the stages of painting practice 3. Skilled in carrying out surface preparation using abrasive paper	Criteria: Full marks are obtained if the job sheet is carried out according to the SOP. Conformity with the reporting format. Results of analysis of the painting process work that has been carried out. Results of conclusions and suggestions prepared	Model: Project Based Learning Method: demonstration and field work Learning Strategy: Constructivist, Field Observation, and Scientific 5M (observing, asking, collecting information, associating, communicating) 6 X 50			0%
12	1. Skilled in explaining the types of paint and the overall painting procedure. 2. Skilled in preparing the surface of work objects. 3. Knows the responsibilities of each individual or group jobdesk.	1. Skilled in classifying paint and its components 2. Skilled in explaining the stages of painting practice 3. Skilled in carrying out surface preparation using abrasive paper	Criteria: Full marks are obtained if the job sheet is carried out according to the SOP. Conformity with the reporting format. Results of analysis of the painting process work that has been carried out. Results of conclusions and suggestions prepared	Model: Project Based Learning Method: demonstration and field work Learning Strategy: Constructivist, Field Observation, and Scientific 5M (observing, asking, collecting information, associating, communicating) 6 X 50			0%

13	1. Skilled in explaining the types of paint and the overall painting procedure. 2. Skilled in preparing the surface of work objects. 3. Knows the responsibilities of each individual or group jobdesk.	1. Skilled in classifying paint and its components 2. Skilled in explaining the stages of painting practice 3. Skilled in carrying out surface preparation using abrasive paper	Criteria: Full marks are obtained if the job sheet is carried out according to the SOP. Conformity with the reporting format. Results of analysis of the painting process work that has been carried out. Results of conclusions and suggestions prepared	Model: Project Based Learning Method: demonstration and field work Learning Strategy: Constructivist, Field Observation, and Scientific 5M (observing, asking, collecting information, associating, communicating) 6 X 50			0%
14	1. Skilled in explaining the types of paint and the overall painting procedure. 2. Skilled in preparing the surface of work objects. 3. Knows the responsibilities of each individual or group jobdesk.	1. Skilled in classifying paint and its components 2. Skilled in explaining the stages of painting practice 3. Skilled in carrying out surface preparation using abrasive paper	Criteria: Full marks are obtained if the job sheet is carried out according to the SOP. Conformity with the reporting format. Results of analysis of the painting process work that has been carried out. Results of conclusions and suggestions prepared	Model: Project Based Learning Method: demonstration and field work Learning Strategy: Constructivist, Field Observation, and Scientific 5M (observing, asking, collecting information, associating, communicating) 6 X 50			0%
15	1. Skilled in explaining the types of paint and the overall painting procedure. 2. Skilled in preparing the surface of work objects. 3. Knows the responsibilities of each individual or group jobdesk.	1. Skilled in classifying paint and its components 2. Skilled in explaining the stages of painting practice 3. Skilled in carrying out surface preparation using abrasive paper	Criteria: Full marks are obtained if the job sheet is carried out according to the SOP. Conformity with the reporting format. Results of analysis of the painting process work that has been carried out. Results of conclusions and suggestions prepared	Model: Project Based Learning Method: demonstration and field work Learning Strategy: Constructivist, Field Observation, and Scientific 5M (observing, asking, collecting information, associating, communicating) 6 X 50			0%
16							0%

Evaluation Percentage Recap: Case Study

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.
- 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.
- 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.
- 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.
- 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.
- 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.