

		<b>Universitas Negeri Surabaya</b> <b>Faculty of Engineering,</b> <b>Building Engineering Education Undergraduate Study</b> <b>Program</b>					<b>Document Code</b>																																										
<b>SEMESTER LEARNING PLAN</b>																																																	
<b>Courses</b>		<b>CODE</b>	<b>Course Family</b>		<b>Credit Weight</b>		<b>SEMESTER</b>	<b>Compilation Date</b>																																									
Furniture and Rack Engineering		8320502225			T=2	P=0	ECTS=3.18	3 July 18, 2024																																									
<b>AUTHORIZATION</b>		<b>SP Developer</b>		<b>Course Cluster Coordinator</b>			<b>Study Program Coordinator</b>																																										
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<b>Learning model</b>	<b>Case Studies</b>																																																
<b>Program Learning Outcomes (PLO)</b>	<b>PLO study program that is charged to the course</b>																																																
	<b>Program Objectives (PO)</b>																																																
	<b>PLO-PO Matrix</b>																																																
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	<b>PO Matrix at the end of each learning stage (Sub-PO)</b>																																																
		<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td rowspan="2" style="width: 30px; height: 30px;">P.O</td> <td colspan="16" style="text-align: center;">Week</td> </tr> <tr> <td style="width: 20px;">1</td> <td style="width: 20px;">2</td> <td style="width: 20px;">3</td> <td style="width: 20px;">4</td> <td style="width: 20px;">5</td> <td style="width: 20px;">6</td> <td style="width: 20px;">7</td> <td style="width: 20px;">8</td> <td style="width: 20px;">9</td> <td style="width: 20px;">10</td> <td style="width: 20px;">11</td> <td style="width: 20px;">12</td> <td style="width: 20px;">13</td> <td style="width: 20px;">14</td> <td style="width: 20px;">15</td> <td style="width: 20px;">16</td> </tr> </table>																P.O	Week																1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
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<b>Short Course Description</b>	This course provides an understanding of manual and mechanical wood finishing work tools. Introduction to materials such as varnish, polish, duco, oil paint, melamine, melamine. Finishing work for frames, doors, furniture (tables, chairs, cupboards, etc.). Learning is carried out by providing project-based assignments to plan furniture starting from drawings, implementation and finishing, to making reports on the use of materials and finances.																																																
<b>References</b>	<b>Main :</b>																																																
	<ol style="list-style-type: none"> <li>1. Suparji.2007. Buku Panduan Praktikum Kayu.Surabaya:Unipres.</li> <li>2. Dian Ariestandi. 2000. Teknik Struktur Bangunan Untuk SMK bse.Jakarta: Ditmenjur</li> <li>3. Budi Martono dkk. 2008. Teknik Perkayuan Jilid 1 SMK (K3).Jakarta: Dikbinjur Dirjen Pemdikan Dasar dan Menengah</li> <li>4. Sukardi dan Bernadus. 2012. BimbinganTeknis Pengelola Laboratorium Juru bengkel SMK Bidang Teknis Permesinan.Jakarta: Direktorat Pembinaan PTKKementrian Pendidikan dan kebudayaan</li> <li>5. Dodong Budiyanto. Mesin Tangan Industri Kayu</li> <li>6. John Stefford. 1983.Teknologi Kerja Kayu. Jakarta:Erlangga</li> <li>7. Yustunus Suranto.2002. Pengawetan Kayu. Yogyakarta:Kanisius.</li> </ol>																																																
	<b>Supporters:</b>																																																
<b>Supporting lecturer</b>	Drs. Hasan Dani, M.T. Prof. Dr. Agus Wiyono, S.Pd., M.T.																																																
<b>Week-</b>	<b>Final abilities of each learning stage (Sub-PO)</b>	<b>Evaluation</b>		<b>Help Learning, Learning methods, Student Assignments, [ Estimated time]</b>		<b>Learning materials [ References ]</b>	<b>Assessment Weight (%)</b>																																										
		<b>Indicator</b>	<b>Criteria &amp; Form</b>	<b>Offline ( offline )</b>	<b>Online ( online )</b>																																												

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	Understand manual wood finishing work tools	Explain the various types of manual wood finishing tools. Explain how to use manual wood finishing tools. Explain the safety of working with manual wood finishing tools.	<b>Criteria:</b> Full marks are obtained if you do all the questions correctly. The total score is 100. The weight of each question 1-9 is 7.5, and the weight of question 10 is 32.5.	Lectures, discussions, questions and answers, and presentations 2 X 50			0%
2	Understand mechanical wood finishing work tools.	Explain the various types of mechanical wood finishing work tools. Explains how to use mechanical wood finishing work tools. Explain the safety of mechanical wood finishing tools.	<b>Criteria:</b> Full marks are obtained if you do all the questions correctly. The total score is 100. The weight of each question 1-9 is 7.5, and the weight of question 10 is 32.5.	Lectures, discussions, questions and answers, and presentations 2 X 50			0%
3	Introduction to varnish, polish, duco, oil paint and melamine.	Explain the function of varnish, polish, duco, oil paint, melamic and melamine. Explains how to use varnish, polish, duco, oil paint, melamine and melamine.	<b>Criteria:</b> Full marks are obtained if you do all the questions correctly. The total score is 100. The weight of each question 1-9 is 7.5, and the weight of question 10 is 32.5.	Lectures, discussions, questions and answers, and presentations 4 X 50			0%
4	Introduction to varnish, polish, duco, oil paint and melamine.	Explain the function of varnish, polish, duco, oil paint, melamic and melamine. Explains how to use varnish, polish, duco, oil paint, melamine and melamine.	<b>Criteria:</b> Full marks are obtained if you do all the questions correctly. The total score is 100. The weight of each question 1-9 is 7.5, and the weight of question 10 is 32.5.	Lectures, discussions, questions and answers, and presentations 2 X 50			0%
5	Understand the work steps for making frames, doors, furniture (tables, chairs, cupboards, etc.).	Explain the work steps for making frames, doors, furniture (tables, chairs, cupboards, etc.).	<b>Criteria:</b> Full marks are obtained if you do all the questions correctly. The total score is 100. The weight of each question 1-9 is 7.5, and the weight of question 10 is 32.5.	Lectures, discussions, questions and answers, and presentations 2 X 50			0%

6	Understand the work steps for finishing frames, doors, furniture (tables, chairs, cupboards, etc.).	Explain the work steps for finishing frames, doors, furniture (tables, chairs, cupboards, etc.).	<b>Criteria:</b> Full marks are obtained if you do all the questions correctly. The total score is 100. The weight of each question 1-9 is 7.5, and the weight of question 10 is 32.5.	Lectures, discussions, questions and answers, and presentations 2 X 50			0%
7	Planning to make furniture (drawings, materials used, finances, execution, and finishing)	Planning to make furniture (drawings, materials used, finances, execution, and finishing)	<b>Criteria:</b> Full marks are obtained if you do all the questions correctly. The total score is 100. The weight of each question 1-9 is 7.5, and the weight of question 10 is 32.5.	Lectures, discussions, questions and answers, and presentations 2 X 50			0%
8	U.S.S	-	<b>Criteria:</b> -	- 2 X 4			0%
9	Make furniture (cabinet, table, chair, or wooden shelf)	Make furniture (cabinet, table, chair, or wooden shelf)	<b>Criteria:</b> The drawing is correct, the tools and materials are appropriate, the method of making it is correct, the connections are correct, the group is active, the object is good.	Discussion, group work 4 X 50			0%
10	Make furniture (cabinet, table, chair, or wooden shelf)	Make furniture (cabinet, table, chair, or wooden shelf)	<b>Criteria:</b> The drawing is correct, the tools and materials are appropriate, the method of making it is correct, the connections are correct, the group is active, the object is good.	Discussion, group work 4 X 50			0%
11	Make furniture (cabinet, table, chair, or wooden shelf)	Make furniture (cabinet, table, chair, or wooden shelf)	<b>Criteria:</b> The drawing is correct, the tools and materials are appropriate, the method of making it is correct, the connections are correct, the group is active, the object is good.	Discussion, group work 4 X 50			0%
12	Make furniture (cabinet, table, chair, or wooden shelf)	Make furniture (cabinet, table, chair, or wooden shelf)	<b>Criteria:</b> The drawing is correct, the tools and materials are appropriate, the method of making it is correct, the connections are correct, the group is active, the object is good.	Discussion, group work 4 X 50			0%
13	Carrying out furniture finishing	Carrying out furniture finishing	<b>Criteria:</b> The drawing is correct, the tools and materials are appropriate, the method of making it is correct, the connections are correct, the group is active, the object is good.	Discussion, group work 2 X 50			0%
14	Carrying out furniture finishing	Carrying out furniture finishing	<b>Criteria:</b> The drawing is correct, the tools and materials are appropriate, the method of making it is correct, the connections are correct, the group is active, the object is good.	Discussion, group work 2 X 50			0%

15	Make reports on the use of materials and finances for making furniture	Make reports on the use of materials and finances for making furniture	<b>Criteria:</b> The image is correct, the report structure is good, the report contents are complete, there is a cost calculation, there is a material calculation	Discussion, group work 2 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.
- 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.
- Learning materials** are details or descriptions of study materials which can be presented in the form of several main points and sub-topics.
- 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%.
- TM=Face to face, PT=Structured assignments, BM=Independent study.