

Get to know

manual and mechanical wood working tools

Students

can explain manual

and mechanical

wood working

tools

Criteria:

Full marks are obtained if you do all the questions correctly

Form of Assessment :

Participatory Activities

Universitas Negeri Surabaya Faculty of Engineering Civil Engineering Undergraduate Study Program

Document Code

SEMESTED I EXPAINE DI ANI

SEWESTER LEARNING PLAN													
Courses			CODE		Course Fam	Course Family		Credit Weight		SEMES	TER	Compilation Date	
Wood Construction			2220102	158	Study Progra	ım Elect	ive	T=2	P=0	ECTS=3.18		5	July 17, 2024
AUTHORIZATION			SP Deve	loper	- Courses		Cours	e Clu	ster C	oordinator	Study P	rogram Co	ordinator
							Yogie Risdianto, S.T., M.T.		, S.T., M.T.				
Learning model		Case Studies											
Program		PLO study program which is charged to the course											
Learning Outcome		Program Objectives (PO)											
(PLO)		PLO-PO Matrix											
			P.O										
	İ	PO Matrix at th	e end of eacl	h learning	stage (Sub-PO)							
			P.O	P.O Week									
			1	. 2 3	4 5	6 7	8	9	10	11 :	12 13	14 1	15 16
Short Course Descript	ion	Understanding of manual and mechanical wood working tools, K3, manual planing, making various straight joints, making woo connections. Make construction models of trusses, tables, frames such as straight, slanted lip joints, etc. Calculating materials TI learning model used is a direct learning model. Learning method: Lecture, question and answer, practicum and reporting.											
Reference	ces	Main :											
		 Suparji.2007.Buku Panduan Praktikum Kayu. Surabaya:Unipres. Sugiharjo.1984.Gambar-gambar Dasar Ilmu Bangunan.Sugiharjo Dian Ariestasi. 2000.Teknik Struktur Bangunan Untuk SMK bse. Jakarta: Ditmenjur Budi Martono dkk. 2008.Teknik Perkayuan Jilid 1 SMK (K3).Jakarta: Dikbinjur Dirjen Penddikan Dasar dan Menengah Soegiharjo, Sodibyo.1976.Ilmu Bangunan Gedung 2. Jakarta:Dikmenjur Sukardi dan Bernadus. 2012.Bimbingan Teknis Pengelola Laboratorium Juru bengkel SMK Bidang Teknis Permesinan. Jakarta:Direktorat Pembinaan PTK Kementrian Pendidikan dan kebudayaan 											
		Supporters:											
Supporting lecturer		Muhammad Imaduddin, S.T., M.T. Meity Wulandari, S.T., M.T.											
Week- ead sta			In dis atau	Evaluation		Ott.	Help Learning, Learning methods, Student Assignments, [Estimated time] Offline (Online (online)			Learning materials [References]	Assessment Weight (%)		
	(Sub-PO)		Indicator	Crite	ria & Form	offli		Ü	mine	(online)			
(1)		(2)	(3)		(4)	(5	5)		((6)		(7)	(8)

Lectures,

discussions,

questions

answers,

4 X 50

exercises

and

and

Material: Manual

and mechanical

woodworking tools. **Library:**Suparji.2007.
Woodworking

Practical

Guidebook. Surabaya: Unipres.

4%

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2	Understanding K3	Students can explain the tools and use of K3	Criteria: Full marks are obtained if you do all the questions correctly Form of Assessment: Participatory Activities	Lectures, discussions, questions and answers, and 4 X 50 exercises	Material: Tools and use of K3 Library: Sukardi and Bernadus. 2012. Technical Guidance for Laboratory Managers of Vocational School Workshop Engineers in the Field of Mechanical Engineering. Jakarta: Directorate of PTK Development, Ministry of Education and Culture	4%
3	Skilled in maintaining tools (planers, chisels, and manual saw teeth)	naintaining tools planers, chisels, nd manual saw are skilled at 1.Full value if the pro-		Practical 4 X 50	Material: Tools (planers, chisels and manual saw teeth) Library: Suparji.2007. Wood Practical Handbook. Surabaya: Unipres.	4%
4	Skilled in manual planing	Students are skilled at manual planning	Criteria: 1.Full value is obtained if the product: 2.1. Flat 3.2. Average 4.3. Elbow 5.4. Not propelling 6.5. Fast Form of Assessment: Participatory Activities	Practical 4 X 50	Material: Manual planing Library: Suparji.2007.Wood Practical Guidebook. Surabaya: Unipres.	3%
5	Skilled in manual planing	Students are skilled at manual planning	Criteria: 1.Full value is obtained if the product: 2.1. Flat 3.2. Average 4.3. Elbow 5.4. Not propelling 6.5. Fast Form of Assessment: Participatory Activities	Practical 4 X 50	Material: manual planing Reference: Suparji.2007. Woodworking Practical Guidebook. Surabaya: Unipres.	4%
6	Skilled in making joints such as straight, slanted lip joints, etc.	Students are skilled at making joints such as straight, slanted lip joints, etc.	Criteria: 1.Full value is obtained if the product: 2.1. Flat 3.2. Average 4.3. Elbow 5.4. Not propelling 6.5. Fast Form of Assessment: Participatory Activities, Practice/Performance	Practical 4 X 50	Material: straight, slanted lip joints, etc. Library: Suparji.2007. Wood Practical Handbook. Surabaya: Unipres.	3%
7	Skilled in making joints such as straight, slanted lip joints, etc.	Students are skilled at making joints such as straight, slanted lip joints, etc.	Criteria: 1.Full value is obtained if the product: 2.1. Flat 3.2. Average 4.3. Elbow 5.4. Not propelling 6.5. Fast Form of Assessment: Participatory Activities, Practice/Performance	Practical 4 X 50	Material: straight, angled lip joints, etc. Reference: Suparji.2007. Woodworking Practical Guidebook. Surabaya: Unipres.	4%

8	Skilled in making joints such as straight, slanted lip joints, etc.	Students are skilled at making joints such as straight, slanted lip joints, etc.	Criteria: 1.Full value is obtained if the product: 2.1. Flat 3.2. Average 4.3. Elbow 5.4. Not propelling 6.5. Fast Form of Assessment: Participatory Activities, Tests	Practical 4 X 20	Material: straight, slanted lip joints, etc. Library: Suparji.2007. Woodworking Practical Guidebook. Surabaya: Unipres.	20%
9	Skilled at planing with mechanical tools	Students are skilled at planning with mechanical tools	Criteria: 1.Full value is obtained if the product: 2.1. Flat 3.2. Average 4.3. Elbow 5.4. Not propelling 6.5. Fast Form of Assessment: Participatory Activities, Practice/Performance	Practical 4 X 50	Material: planing with mechanical tools Library: Suparji.2007. Woodworking Practical Guidebook. Surabaya: Unipres.	4%
10	Skilled in designing finished goods	Students are skilled at designing finished goods	Criteria: 1.Full value is obtained if the product: 2.1. Interesting 3.2. Effective 4.3. Evisien 5.4. Easy to work with Form of Assessment: Participatory Activities, Practice/Performance	Practical 4 X 50	Material: designing finished goods Reader: Dian Ariestasi. 2000. Building Structure Engineering for BSE Vocational Schools. Jakarta: Directorate of Menjur	3%
11	Skilled in planning cost budgets	Students are skilled at planning cost budgets	Criteria: 1.Full value is obtained if the product: 2.1. Effective 3.2. Evisien Form of Assessment: Participatory Activities, Practice/Performance	Practical 4 X 50	Material: planning a budget Reference: Suparji.2007.Wood Practical Guidebook. Surabaya: Unipres.	3%
12	Make models of finished goods, frames, doors, trusses.	Students are skilled at making finished goods: frames, doors, easels.	Criteria: 1.Full value is obtained if the product: 2.1. Flat 3.2. Average 4.3. Elbow 5.4. Not propelling 6.5. Fast Form of Assessment: Participatory Activities, Practice/Performance	Practical 4 X 50	Materials: models of finished goods, frames, doors, trusses. Reference: Suparji.2007. Woodworking Practical Guidebook. Surabaya: Unipres.	4%
13	Make models of finished goods for frames, doors and trusses.	Students are skilled at making items into frames, doors and frames.	Criteria: 1.Full marks are obtained if the oral answer is correct and all the questions are answered correctly and the product is produced: 2.Accurate measurements. Elbow assembly, flat, not propelled. Reports are made correctly on time and not copy pasted Form of Assessment: Participatory Activities, Practice/Performance	Practical 4 X 50	Material: Models of finished goods for frames, doors and trusses. Reference: Suparji.2007. Practical Handbook for Wood. Surabaya: Unipres.	3%

14	Make models of finished items such as frames, doors, easels and tables and chairs.	Students are skilled at making finished items such as frames, doors, easels and tables and chairs.	Criteria: 1.Full marks are obtained if the oral answer is correct and all the questions are answered correctly and the product is produced: 2.Accurate measurements. Elbow assembly, flat, not propelled. Reports are made correctly on time and not copy pasted Form of Assessment: Participatory Activities, Practice/Performance	Practical 4 X 50	Material: finished product models of frames, doors, easels, and tables and chairs. Reference: Suparji.2007. Practical Handbook on Wood. Surabaya: Unipres.	3%
15	Make models of finished items such as frames, doors, easels and tables and chairs.	Students are skilled at making finished items such as frames, doors, easels and tables and chairs.	Criteria: 1.Full marks are obtained if the oral answer is correct and all the questions are answered correctly and the product is produced: 2.Accurate measurements. Elbow assembly, flat, not propelled. Reports are made correctly on time and not copy pasted Form of Assessment: Participatory Activities, Practice/Performance	Practical 4 X 50	Materials: Finished models of frames, doors, easels and tables and chairs. Reference: Suparji.2007. Woodworking Practical Guidebook. Surabaya: Unipres.	4%
16			Form of Assessment : Participatory Activities, Tests			30%

Evaluation Percentage Recap: Case Study

No	Evaluation	Percentage
1.	Participatory Activities	59.5%
2.	Practice / Performance	15.5%
3.	Test	25%
		100%

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.
- 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.