

		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																	
Diesel Motor Technology Practice		8320302227			T=0	P=2	ECTS=3.18	4 July 18, 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																								
	<table border="1" style="margin: auto;"> <tr> <td style="width: 10%;"></td> <td style="width: 10%; text-align: center;">P.O</td> <td colspan="16"></td> </tr> </table>									P.O															
	P.O																								
Short Course Description	This course is a practical diesel motor technology course which will teach students about techniques and how to carry out maintenance, care and repair of diesel engines, including: fuel systems, lubrication and cooling systems, and other components supporting diesel motors, considering the covid outbreak -19 is still hitting practicum activities carried out in workshops or in/around the student's residence with mechanical guidance at that place. In the practicum process, students are required to follow and obey the Covid-19 health protocol. Apart from the practicum, students also have to make practicum reports in 2 forms, namely video editing and scientific work. These reports will be presented by students individually 2 weeks after the practicum.																								
	<p>References</p> <p>Main :</p> <p>1. Petrovsky,N. 1968.<i>Manne Internal Combustion Engine</i>.Moscow: MIR Publisher. ObbertEdward F.<i>Internal Combustion Engines andAir Polution</i>. New York: Harper & Row. Anonim, 1995, NewStep 1 Training Manual. Jakarta: PT. Toyota Astra Motor. Anonim, 1995, Materi PelajaranEngine Group Step 2. Jakarta: PT. Toyota Astra Motor.</p> <p>Supporters:</p>																								
Supporting lecturer	Prof. Dr. Muhaji, S.T., M.T. Iskandar, S.T., M.T. Rachmad Syarifudin Hidayatullah, S.Pd., M.Pd. Ika Nurjannah, 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	Students can find out the systematics of studying diesel motor technology practice.	A) Students can explain how to assess, B) Students can explain assignments and evaluation methods,	Criteria: non-test	Lectures 3 X 50			0%
2	Students can practice diesel motorbikes in workshops (du/di) around where they live	A) Students can help with work, maintenance and repair of diesel motorbikes according to the standards of the workshop they occupy, B) Students can comment on work in the workshop in video form	Criteria: non-test	Problem base leaning 3 X 50			0%
3	Students can prepare reports on diesel motor technology practice activities well	A) Students can edit videos using video editing applications, B) Students can prepare practical reports in the form of scientific work in accordance with the guidelines, C) Students can make presentation materials in the form of power points	Criteria: non-test	Problem base leaning 3 X 50			0%
4	Students can present practicum results verbally using IT well	A) Students can use power point broadcast materials, B) Students can present their practicum results verbally using correct and polite language	Criteria: attached	Individual presentation, Question and answer 3 X 50			0%
5	Students can practice diesel motorbikes in workshops (du/di) around where they live	A) Students can help with work, maintenance and repair of diesel motorbikes according to the standards of the workshop they occupy, B) Students can comment on work in the workshop in video form	Criteria: non-test	Problem base leaning 3 X 50			0%

6	Students can prepare reports on diesel motor technology practice activities well	A) Students can edit videos using video editing applications, B) Students can prepare practical reports in the form of scientific work in accordance with the guidelines, C) Students can make presentation materials in the form of power points	Criteria: non-test	Problem base leaning 3 X 50			0%
7	Students can present practicum results verbally using IT well	A) Students can use power point broadcast materials, B) Students can present their practicum results verbally using correct and polite language	Criteria: attached	Individual presentation, Question and answer 3 X 50			0%
8	Students can answer questions honestly and correctly (UTS)	Students can answer questions quickly and honestly correctly	Criteria: attached	Questions and answers 3 X 50			0%
9	Students can practice diesel motorbikes in workshops (du/di) around where they live	A) Students can help with work, maintenance and repair of diesel motorbikes according to the standards of the workshop they occupy, B) Students can comment on work in the workshop in video form	Criteria: non-test	Problem base leaning 3 X 50			0%
10	Students can prepare reports on diesel motor technology practice activities well	A) Students can edit videos using video editing applications, B) Students can prepare practical reports in the form of scientific work in accordance with the guidelines, C) Students can make presentation materials in the form of power points	Criteria: non-test	Problem base leaning 3 X 50			0%
11	Students can present practicum results verbally using IT well	A) Students can use power point broadcast materials, B) Students can present their practicum results verbally using correct and polite language	Criteria: attached	Individual presentation, Question and answer 3 X 50			0%

12	Students can practice diesel motorbikes in workshops (du/di) around where they live	A) Students can help with work, maintenance and repair of diesel motorbikes according to the standards of the workshop they occupy, B) Students can comment on work in the workshop in video form	Criteria: non-test	Problem base leaning 3 X 50			0%
13	Students can prepare reports on diesel motor technology practice activities well	A) Students can edit videos using video editing applications, B) Students can prepare practical reports in the form of scientific work in accordance with the guidelines, C) Students can make presentation materials in the form of power points	Criteria: non-test	Problem base leaning 3 X 50			0%
14	Students can present practicum results verbally using IT well	A) Students can use power point broadcast materials, B) Students can present their practicum results verbally using correct and polite language	Criteria: attached	Individual presentation, Question and answer 3 X 50			0%
15	Students can present practicum results verbally using IT well	A) Students can use power point broadcast materials, B) Students can present their practicum results verbally using correct and polite language	Criteria: attached	Individual presentation , Q&A 3 X 50			0%
16							0%

Evaluation Percentage Recap: Case Study

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.