



**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		
Learning Media and Tik	8320303067		T=3 P=0 ECTS=4.77	4	July 17, 2024		
AUTHORIZATION	SP Developer		Course Cluster Coordinator		Study Program Coordinator		
		Ir. Wahyu Dwi Kurniawan, S.Pd., M.Pd.		
Learning model	Project Based Learning						
Program Learning Outcomes (PLO)	PLO study program which is charged to the course						
	Program Objectives (PO)						
	PLO-PO Matrix						
		P.O					
Short Course Description	The main discussion in this course concerns the concept and role of media in the learning process, selection techniques as well as design techniques and strategies for using educational media in the teaching and learning process. So that in the end students can create and use effective and efficient media in the teaching and learning process in mechanical engineering subjects.						
	References						
Supporting lecturer	Main :						
	1. Arsyad A. 1997. Media Pembelajaran. Jakarta: Raja Grafindo Persada 2. Asyhar R. 2012. Kreatif Mengembangkan Media Pembelajaran. Jakarta: Referensi 3. Daryanto. 2010. Media Pembelajaran. Yogyakarta: Gava Media Yogyakarta 4. Prawiradilaga, Dewi S. 2009. Prinsip Disain Pembelajaran. Jakarta: Kencana 5. Susilana, R. 2008. Media Pembelajaran: Hakikat, Pengembangan, Pemanfaatan, dan Penilaian. Bandung: Wacana Prima 6. Wang, Q., Nieveen, N., & van den Akker, J. 2007. Designing a Computer Support System for Multimedia Curriculum Development in Shanghai. Association for Educational Communications & Technology, 55, 275-295. 7. Sumber yang relevan lainnya.						
	Supporters:						
	Dr. Djoko Suwito, M.Pd. Dr. Warju, S.Pd., S.T., M.T. Muamar Zainul Arif, S.Pd., M.Pd.						
Week-	Final abilities of each learning stage (Sub-PO)	Evaluation		Help Learning, Learning methods, Student Assignments, [Estimated time]		Learning materials [References]	Assesment Weight (%)
		Indicator	Criteria & Form	Offline (offline)	Online (online)		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)

1	Introduction to Learning Media Courses	General knowledge about learning media	Criteria: able to explain the role of learning media in the field of mechanical engineering in accordance with current technological developments	Lectures 3 X 50			0%
2	Generalizing the scope of learning media	1.Understand the concept of learning media 2.Examining the definition of learning media and the basis for using media 3.Explain the characteristics of learning media 4.Describe the functions and benefits of educational media	Criteria: able to create a concept chart of learning media in relation to the field of mechanical engineering	Presentations, discussions and questions and answers 3 X 50			0%
3	Able to classify learning media	Detailing the types and characteristics 1) Graphic media a. Chart b. Graphic c. Figure d. Comic e. caricature 2) Audio Media a. Radio b. Tape recorder c. Language labor 3) Audio visual media a. Television b. DVD 4) Projection media a. Transparent overhead projector b. LCD	Criteria: Able to provide examples of learning media based on the classification that you have presented	Presentations, discussions and questions and answers 3 X 50			0%
4	Able to develop media selection techniques in accordance with the field of mechanical engineering	1. Examining media selection 2. Interpreting the basic considerations in media selection a. Theoretical reasons b. Practical reasons 3. Design criteria for selecting media a. General criteria b. Specific criteria 4. Selection of mechanical engineering learning media	Criteria: Able to describe the form of selecting learning media that is appropriate to the field of mechanical engineering correctly according to the answer key	Presentations, discussions and questions and answers 3 X 50			0%
5	Able to understand the development and use of high technology-based media	1.Analyzing distance learning with e-learning tools 2.Provide examples of multimedia in learning 3.Describe interactive learning materials 4.Describe WEB-based teaching materials 5.Classifying teaching material software 6.Differentiate between audiotape and videotape 7.Decoding Computer Based Training (CBT) 8.Decoding Web Based Training (WBT) 9.Decoding International Network (Internet)	Criteria: able to provide examples of 5 types of web-based learning media	Presentations, discussions, questions and answers, assignments and exercises 3 X 50			0%

6	Able to prepare Media Utilization and Production Plans in Mechanical Engineering Learning	<ol style="list-style-type: none"> 1. Identify the type of learning media applied 2. Review the learning media materials that will be applied. 3. Identify the advantages and disadvantages of the learning media that will be applied 	Criteria: Able to design learning media in one of the fields of mechanical engineering	Presentations, discussions, questions and answers, assignments and exercises 3 X 50			0%
7	Understand module preparation techniques	<ol style="list-style-type: none"> 1. Describe the meaning of module 2. Identify the characteristics of the module 3. Outlines the principles of module development 4. Outlines the procedures for compiling modules 5. Outlines the steps for compiling a module 6. Describes the module format/framework 	Criteria: Able to make modules correctly according to SOP	Presentations, discussions, questions and answers, assignments and exercises 3 X 50			0%
8	MIDTERM EXAM	MIDTERM EXAM	Criteria: MIDTERM EXAM	MID SEMESTER EXAMINATION 3 X 50			0%
9	Able to create visual-based learning media	<ol style="list-style-type: none"> 1. Develop scenarios/steps to create visual-based learning media 2. Displays visual-based learning media 	Criteria: Able to create visual-based learning media with mechanical engineering material	Presentation, Discussion, Assignment, Practice 3 X 50			0%
10	Able to create visual-based learning media	<ol style="list-style-type: none"> 1. Develop scenarios/steps to create visual-based learning media 2. Displays visual-based learning media 	Criteria: Able to create visual-based learning media with mechanical engineering material	Presentation, Discussion, Assignment, Practice 3 X 50			0%
11	Able to create audio-based learning media	<ol style="list-style-type: none"> 1. Develop scenarios/steps to create audio-based learning media 2. Displays audio-based learning media 	Criteria: Able to arrange steps for audio-based learning media by referring to mechanical engineering material correctly according to the answer key	Presentation, Discussion, Assignment, Practice 3 X 50			0%
12	Able to create audio-based learning media	<ol style="list-style-type: none"> 1. Develop scenarios/steps to create audio-based learning media 2. Displays audio-based learning media 	Criteria: Able to arrange steps for audio-based learning media by referring to culinary material correctly according to the answer key	Presentation, Discussion, Assignment, Practice 3 X 50			0%
13	Able to create audio-visual based learning media	<ol style="list-style-type: none"> 1. Develop scenarios/steps to create audio-visual based learning media 2. Displays audio-visual based learning media 	Criteria: Able to correctly arrange steps for audio-visual based learning media in the field of mechanical engineering according to the answer key	Presentation, Discussion, Assignment, Practice 3 X 50			0%

14	Able to create audio-visual based learning media	1. Develop scenarios/steps to create audio-visual based learning media 2. Displays audio-visual based learning media	Criteria: Able to correctly arrange steps for audio-visual based learning media in the field of mechanical engineering according to the answer key	Presentation, Discussion, Assignment, Practice 3 X 50			0%
15	Able to create module-based learning media	1. Develop scenarios/steps to create module-based learning media 2. Displays module-based learning media	Criteria: Able to create module-based learning media with the theme of using measuring instruments correctly according to the answer key	Presentation, Discussion, Assignment, Practice 3 X 50			0%
16							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.**