

## Universitas Negeri Surabaya Faculty of Engineering , Electrical Engineering Education Undergraduate Study Program

Document Code

SEMESTER LEARNING PLAN																
Courses		CODE		Course	Course Family		Crea	Credit Weight		SEN	NESTER	Compilation Date	on			
Audio an	nd Vio	deo Engineering		832010318	32				T=3	P=0	ECT	S=4.77		4	July 17, 20	24
AUTHOR	RIZAT	ION		SP Develo	per			Cours	e Clus	ster C	oordir	ator	Study Program Coordinator			
										Dr. Nur Kholis, S.T., M.T.			Г.			
Learning model	I	Project Based L	.earnir	ng												
Program	1	PLO study pro	gram	that is cha	arged to t	he course										
Outcom	es	Program Obje	ctives	(PO)												
(PLO)		PLO-PO Matrix	c													
			P.O													
		PO Matrix at the end of each learning stage (Sub-PO)														
			P	2.0 1	2 3	4 5 6	7	8	Week 9	10	11	12	13	14	15 16	
Short Course Descript	tion	This course includes the development of essential knowledge, attitudes and skills about audio video, especial competence about audio video. This course is divided into three main parts, each of which is focused on: (1 understanding and characteristics of audio video, (2) the functions and models of audio video, and (3) the implication audio video.					Ily to devel 1) the gene ations of usi	op ral ng								
Reference	ces	Main :														
<ol> <li>Direktorat Pembinaan SMK. 2008. Teknik Audio Video. Jakarta: Direktorat PSMK.</li> <li>Douglas Self MA, MSc. 2002. Audio Power Amplifier Design Handbook Third edition. Boston: New 3. Ian R. Sinclair. 1998. Audio and Hi-Fi Handbook Third Edition. Boston: Newnes.</li> <li>Yannis Tsividis. 2002. A First Lab In Circuits And Electronics. New York: John Wiley &amp; Sons, Inc.</li> <li>Shalom Eliezer, Yaffa Eliezer. 2001. The Fourth State of Matter An Introduction to Plasma S Institute of Physics Publishing Bristol and Philadelphia.</li> </ol>				: New Inc. na So	vnes. cience Se	cond Editic	n.									
Supporters:																
Support lecturer	ing	Dr. Edy Sulistiyo Parama Diptya V	, M.Pd Vidaya	ka, S.ST., N	1.T.											
Week-		nal abilities of ach learning age		of Evaluation			He Lear Stude [E:		Help Learning, Learning methods, Student Assignments, [Estimated time]			Learning materials [ References		Assessment Weight (%)		
	(Su	J-PO)	In	dicator	Criter	ia & Form	Offl offl	ine( ine)	0	nline	( onlii	ne)		1		
(1)		(2)		(3)		(4)	(	5)			(6)			(7)	(8)	

1	This course includes the development of essential knowledge, attitudes and skills about audio video, especially to develop competence about audio video. This course is divided into three main parts, each of which is focused on: (1) the understanding and general characteristics of audio video, (2) the functions and models of audio video, and (3) the implications of using audio video including the application of CCTV (Close Circuit). television)	After taking this course, students are expected to: 1. Understand concepts and theories about audio video functions; 2. Develop critical thinking regarding the design and implementation of audio video; 3. Become an active learner and creator in building your own knowledge through direct study and study of audio video practices including the application of CCTV (Close Circuit Television).	Criteria: 1.1. Participation in lectures: 16 meetings, weight 20% 2.2. Mid-semester exam: 1 time, weight 20% 3.3. Final semester exam: 1 time, weight 20% 4.4. Presentation (including presentation materials): 1 time, 10% weight 5.5. Project assignment: 1 time, 30% weight	Direct learning, cooperative learning, PjBL, Lectures, Assignments, Discussions and Presentations 3 X 50		0%
2	This course includes the development of essential knowledge, attitudes and skills about audio video, especially to develop competence about audio video. This course is divided into three main parts, each of which is focused on: (1) the understanding and general characteristics of audio video, (2) the functions and models of audio video, and (3) the implications of using audio video including the application of CCTV (Close Circuit). television)	After taking this course, students are expected to: 1. Understand concepts and theories about audio video functions; 2. Develop critical thinking regarding the design and implementation of audio video; 3. Become an active learner and creator in building your own knowledge through direct study and study of audio video practices including the application of CCTV (Close Circuit Television).	Criteria: 1.1. Participation in lectures: 16 meetings, weight 20% 2.2. Mid-semester exam: 1 time, weight 20% 3.3. Final semester exam: 1 time, weight 20% 4.4. Presentation (including presentation materials): 1 time, 10% weight 5.5. Project assignment: 1 time, 30% weight	Direct learning, cooperative learning, PjBL, Lectures, Assignments, Discussions and Presentations 3 X 50		0%
3	This course includes the development of essential knowledge, attitudes and skills about audio video, especially to develop competence about audio video. This course is divided into three main parts, each of which is focused on: (1) the understanding and general characteristics of audio video, (2) the functions and models of audio video, and (3) the implications of using audio video including the application of CCTV (Close Circuit). television)	After taking this course, students are expected to: 1. Understand concepts and theories about audio video functions; 2. Develop critical thinking regarding the design and implementation of audio video; 3. Become an active learner and creator in building your own knowledge through direct study and study of audio video practices including the application of CCTV (Close Circuit Television).	Criteria: 1.1. Participation in lectures: 16 meetings, weight 20% 2.2. Mid-semester exam: 1 time, weight 20% 3.3. Final semester exam: 1 time, weight 20% 4.4. Presentation (including presentation materials): 1 time, 10% weight 5.5. Project assignment: 1 time, 30% weight	Direct learning, cooperative learning, PjBL, Lectures, Assignments, Discussions and Presentations 3 X 50		0%

4	This course includes the development of essential knowledge, attitudes and skills about audio video, especially to develop competence about audio video. This course is divided into three main parts, each of which is focused on: (1) the understanding and general characteristics of audio video, (2) the functions and models of audio video, and (3) the implications of using audio video including the application of CCTV (Close Circuit). television)	After taking this course, students are expected to: 1. Understand concepts and theories about audio video functions; 2. Develop critical thinking regarding the design and implementation of audio video; 3. Become an active learner and creator in building your own knowledge through direct study and study of audio video practices including the application of CCTV (Close Circuit Television).	Criteria: 1.1. Participation in lectures: 16 meetings, weight 20% 2.2. Mid-semester exam: 1 time, weight 20% 3.3. Final semester exam: 1 time, weight 20% 4.4. Presentation (including presentation materials): 1 time, 10% weight 5.5. Project assignment: 1 time, 30% weight	Direct learning, cooperative learning, PjBL, Lectures, Assignments, Discussions and Presentations 3 X 50		0%
5	This course includes the development of essential knowledge, attitudes and skills about audio video, especially to develop competence about audio video. This course is divided into three main parts, each of which is focused on: (1) the understanding and general characteristics of audio video, (2) the functions and models of audio video, and (3) the implications of using audio video including the application of CCTV (Close Circuit). television)	After taking this course, students are expected to: 1. Understand concepts and theories about audio video functions; 2. Develop critical thinking regarding the design and implementation of audio video; 3. Become an active learner and creator in building your own knowledge through direct study and study of audio video practices including the application of CCTV (Close Circuit Television).	<ul> <li>Criteria:</li> <li>1.1. Participation in lectures: 16 meetings, weight 20%</li> <li>2.2. Mid-semester exam: 1 time, weight 20%</li> <li>3.3. Final semester exam: 1 time, weight 20%</li> <li>4.4. Presentation (including presentation materials): 1 time, 10% weight</li> <li>5.5. Project assignment: 1 time, 30% weight</li> </ul>	Direct learning, cooperative learning, PjBL, Lectures, Assignments, Discussions and Presentations 3 X 50		0%
6	This course includes the development of essential knowledge, attitudes and skills about audio video, especially to develop competence about audio video. This course is divided into three main parts, each of which is focused on: (1) the understanding and general characteristics of audio video, (2) the functions and models of audio video, and (3) the implications of using audio video including the application of CCTV (Close Circuit). television)	After taking this course, students are expected to: 1. Understand concepts and theories about audio video functions; 2. Develop critical thinking regarding the design and implementation of audio video; 3. Become an active learner and creator in building your own knowledge through direct study of audio video practices including the application of CCTV (Close Circuit Television).	Criteria: 1.1. Participation in lectures: 16 meetings, weight 20% 2.2. Mid-semester exam: 1 time, weight 20% 3.3. Final semester exam: 1 time, weight 20% 4.4. Presentation (including presentation materials): 1 time, 10% weight 5.5. Project assignment: 1 time, 30% weight	Direct learning, cooperative learning, PjBL, Lectures, Assignments, Discussions and Presentations 3 X 50		0%

7	This course includes the development of essential knowledge, attitudes and skills about audio video, especially to develop competence about audio video. This course is divided into three main parts, each of which is focused on: (1) the understanding and general characteristics of audio video, (2) the functions and models of audio video, and (3) the implications of using audio video including the application of CCTV (Close Circuit). television)	After taking this course, students are expected to: 1. Understand concepts and theories about audio video functions; 2. Develop critical thinking regarding the design and implementation of audio video; 3. Become an active learner and creator in building your own knowledge through direct study and study of audio video practices including the application of CCTV (Close Circuit Television).	Criteria: 1.1. Participation in lectures: 16 meetings, weight 20% 2.2. Mid-semester exam: 1 time, weight 20% 3.3. Final semester exam: 1 time, weight 20% 4.4. Presentation (including presentation materials): 1 time, 10% weight 5.5. Project assignment: 1 time, 30% weight	Direct learning, cooperative learning, PjBL, Lectures, Assignments, Discussions and Presentations 3 X 50		0%
8	This course includes the development of essential knowledge, attitudes and skills about audio video, especially to develop competence about audio video. This course is divided into three main parts, each of which is focused on: (1) the understanding and general characteristics of audio video, (2) the functions and models of audio video, and (3) the implications of using audio video including the application of CCTV (Close Circuit). television)	After taking this course, students are expected to: 1. Understand concepts and theories about audio video functions; 2. Develop critical thinking regarding the design and implementation of audio video; 3. Become an active learner and creator in building your own knowledge through direct study and study of audio video practices including the application of CCTV (Close Circuit Television).	Criteria: 1.1. Participation in lectures: 16 meetings, weight 20% 2.2. Mid-semester exam: 1 time, weight 20% 3.3. Final semester exam: 1 time, weight 20% 4.4. Presentation (including presentation materials): 1 time, 10% weight 5.5. Project assignment: 1 time, 30% weight	Direct learning, cooperative learning, PjBL, Lectures, Assignments, Discussions and Presentations 3 X 50		0%
9	This course includes the development of essential knowledge, attitudes and skills about audio video, especially to develop competence about audio video. This course is divided into three main parts, each of which is focused on: (1) the understanding and general characteristics of audio video, (2) the functions and models of audio video, and (3) the implications of using audio video including the application of CCTV (Close Circuit). television)	After taking this course, students are expected to: 1. Understand concepts and theories about audio video functions; 2. Develop critical thinking regarding the design and implementation of audio video; 3. Become an active learner and creator in building your own knowledge through direct study and study of audio video practices including the application of CCTV (Close Circuit Television).	Criteria: 1.1. Participation in lectures: 16 meetings, weight 20% 2.2. Mid-semester exam: 1 time, weight 20% 3.3. Final semester exam: 1 time, weight 20% 4.4. Presentation (including presentation materials): 1 time, 10% weight 5.5. Project assignment: 1 time, 30% weight	Direct learning, cooperative learning, PjBL, Lectures, Assignments, Discussions and Presentations 3 X 50		0%

10	This course includes the development of essential knowledge, attitudes and skills about audio video, especially to develop competence about audio video. This course is divided into three main parts, each of which is focused on: (1) the understanding and general characteristics of audio video, (2) the functions and models of audio video, and (3) the implications of using audio video including the application of CCTV (Close Circuit). television)	After taking this course, students are expected to: 1. Understand concepts and theories about audio video functions; 2. Develop critical thinking regarding the design and implementation of audio video; 3. Become an active learner and creator in building your own knowledge through direct study and study of audio video practices including the application of CCTV (Close Circuit Television).	Criteria: 1.1. Participation in lectures: 16 meetings, weight 20% 2.2. Mid-semester exam: 1 time, weight 20% 3.3. Final semester exam: 1 time, weight 20% 4.4. Presentation (including presentation materials): 1 time, 10% weight 5.5. Project assignment: 1 time, 30% weight	Direct learning, cooperative learning, PjBL, Lectures, Assignments, Discussions and Presentations 3 X 50		0%
11	This course includes the development of essential knowledge, attitudes and skills about audio video, especially to develop competence about audio video. This course is divided into three main parts, each of which is focused on: (1) the understanding and general characteristics of audio video, (2) the functions and models of audio video, and (3) the implications of using audio video including the application of CCTV (Close Circuit). television)	After taking this course, students are expected to: 1. Understand concepts and theories about audio video functions; 2. Develop critical thinking regarding the design and implementation of audio video; 3. Become an active learner and creator in building your own knowledge through direct study and study of audio video practices including the application of CCTV (Close Circuit Television).	<ul> <li>Criteria:</li> <li>1.1. Participation in lectures: 16 meetings, weight 20%</li> <li>2.2. Mid-semester exam: 1 time, weight 20%</li> <li>3.3. Final semester exam: 1 time, weight 20%</li> <li>4.4. Presentation (including presentation materials): 1 time, 10% weight</li> <li>5.5. Project assignment: 1 time, 30% weight</li> </ul>	Direct learning, cooperative learning, PjBL, Lectures, Assignments, Discussions and Presentations 3 X 50		0%
12	This course includes the development of essential knowledge, attitudes and skills about audio video, especially to develop competence about audio video. This course is divided into three main parts, each of which is focused on: (1) the understanding and general characteristics of audio video, (2) the functions and models of audio video, and (3) the implications of using audio video including the application of CCTV (Close Circuit). television)	After taking this course, students are expected to: 1. Understand concepts and theories about audio video functions; 2. Develop critical thinking regarding the design and implementation of audio video; 3. Become an active learner and creator in building your own knowledge through direct study of audio video practices including the application of CCTV (Close Circuit Television).	Criteria: 1.1. Participation in lectures: 16 meetings, weight 20% 2.2. Mid-semester exam: 1 time, weight 20% 3.3. Final semester exam: 1 time, weight 20% 4.4. Presentation (including presentation materials): 1 time, 10% weight 5.5. Project assignment: 1 time, 30% weight	Direct learning, cooperative learning, PjBL, Lectures, Assignments, Discussions and Presentations 3 X 50		0%

13	This course includes the development of essential knowledge, attitudes and skills about audio video, especially to develop competence about audio video. This course is divided into three main parts, each of which is focused on: (1) the understanding and general characteristics of audio video, (2) the functions and models of audio video, and (3) the implications of using audio video including the application of CCTV (Close Circuit). television)	After taking this course, students are expected to: 1. Understand concepts and theories about audio video functions; 2. Develop critical thinking regarding the design and implementation of audio video; 3. Become an active learner and creator in building your own knowledge through direct study and study of audio video practices including the application of CCTV (Close Circuit Television).	Criteria: 1.1. Participation in lectures: 16 meetings, weight 20% 2.2. Mid-semester exam: 1 time, weight 20% 3.3. Final semester exam: 1 time, weight 20% 4.4. Presentation (including presentation materials): 1 time, 10% weight 5.5. Project assignment: 1 time, 30% weight	Direct learning, cooperative learning, PjBL, Lectures, Assignments, Discussions and Presentations 3 X 50		0%
14	This course includes the development of essential knowledge, attitudes and skills about audio video, especially to develop competence about audio video. This course is divided into three main parts, each of which is focused on: (1) the understanding and general characteristics of audio video, (2) the functions and models of audio video, and (3) the implications of using audio video including the application of CCTV (Close Circuit). television)	After taking this course, students are expected to: 1. Understand concepts and theories about audio video functions; 2. Develop critical thinking regarding the design and implementation of audio video; 3. Become an active learner and creator in building your own knowledge through direct study and study of audio video practices including the application of CCTV (Close Circuit Television).	Criteria: 1.1. Participation in lectures: 16 meetings, weight 20% 2.2. Mid-semester exam: 1 time, weight 20% 3.3. Final semester exam: 1 time, weight 20% 4.4. Presentation (including presentation materials): 1 time, 10% weight 5.5. Project assignment: 1 time, 30% weight	Direct learning, cooperative learning, PjBL, Lectures, Assignments, Discussions and Presentations 3 X 50		0%
15	This course includes the development of essential knowledge, attitudes and skills about audio video, especially to develop competence about audio video. This course is divided into three main parts, each of which is focused on: (1) the understanding and general characteristics of audio video, (2) the functions and models of audio video, and (3) the implications of using audio video including the application of CCTV (Close Circuit). television)	After taking this course, students are expected to: 1. Understand concepts and theories about audio video functions; 2. Develop critical thinking regarding the design and implementation of audio video; 3. Become an active learner and creator in building your own knowledge through direct study and study of audio video practices including the application of CCTV (Close Circuit Television).	<ul> <li>Criteria:</li> <li>1.1. Participation in lectures: 16 meetings, weight 20%</li> <li>2.2. Mid-semester exam: 1 time, weight 20%</li> <li>3.3. Final semester exam: 1 time, weight 20%</li> <li>4.4. Presentation (including presentation materials): 1 time, 10% weight</li> <li>5.5. Project assignment: 1 time, 30% weight</li> </ul>	Direct learning, cooperative learning, PjBL, Lectures, Assignments, Discussions and Presentations 3 X 50		0%
16						0%

Evaluation Percentage Recap: Project Based Learning

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.
- 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.