

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

Document Code

					SI	EMI	EST	ER	LE	ARN	NINC	G PLA	N					
Courses				CODE			Cou	rse Fa	mily				Cre	dit We	ight	SE	MESTER	Compilation Date
Multimed	lia Pr	ocessor		2020102147	,		Com	pulsor	ry Study Program Subjects		T=2	P=0	ECTS=3.1	8	7	May 5, 2023		
AUTHOR	IZAT	ION		SP Develop	er		•				Cou	urse Cluste	r Coo	rdinat	or		udy Progra oordinator	m
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Learning model	I	Case Studies																
Program Learning		PLO study program that is charged to the course																
Outcom		Program Objectives (PO)																
(PLO)		PO - 1	PO-1 Able to apply knowledge of mathematics, natural sciences, information technology, and electrical engineering to gain a thorough understanding of engineering principles															
	_	PLO-PO Matrix	(
				P.0 P0-1														
		PO Matrix at th	ie end	d of each lea	arning	stage	e (Sub	-PO)										
				P.0				r				Weel	1				<u> </u>	
				0.1	1	2	3	4	5	6	7	8 9	10	11	1 12	13	14 1	.5 16
			Р	0-1														
Short Course Descript	tion	This course disc recognition and v	usses /isualiz	digital image zation of objec	es and ots fron	videos n digita	s startir al imag	ng from les or v	n acqu /ideos.	isition, This co	storage ourse is	e, compress presented i	ion, s in the	ending form of	and proces f theory and	sing s practi	such as rep ice	air, restoration,
Reference	ces	Main :																
	ĺ	1. Ze Nian	Li, Ma	rk S drew. Fu	Indame	entals (of Multi	imedia	. 2004	Person								
	-	Supporters:																
	ľ	1. Lars W.	DSP li	ntegrated Circ	cuit. 19	99. Ac	ademi	Press										
Support lecturer		Dr. Farid Baskord Parama Diptya W			Т.													
Week-	eac stag	al abilities of h learning ge b-PO)			aluatio				Help Learni Learning met Student Assign [Estimated			ethods, gnments,		1	Learning materials [References]	Assessment Weight (%)		
(1)			lr	ndicator	C		& For	n		Offlin	e (offl	ine)	((online)	+		
(1)		(2)		(3)		(4	4)				(5)				(6)		(7)	(8)

1	Students are able to understand an introduction to Multimedia	 Students are able to understand what multimedia is Students are able to understand Multimedia and Hypermedia Students are able to understand the World Wide Web Students are able to understand various types of multimedia software 	 Criteria: 1. The assessment criteria are carried out by looking at aspects: 2.1. Participation: carried out by observing student activities (weight 2) 3.2. UTS: carried out with an assessment during the middle of the semester (weight 2) 4.3. UAS: carried out every semester to measure all indicators (weight 3) 5.4. Task: carried out on each indicator (weight 3) 6. Student Final Grade: 7. Participation Score (2)%2 Lever Score (3) divided by 10 Form of Assessment : Participatory Activities 	Discussion and Questions and Answers Presentation 2 X 50	Material: Meeting material 1 References: Ze Nian Li, Mark S drew. Fundamentals of Multimedia. 2004 Person	5%
2	Students are able to understand an introduction to Multimedia	 Students are able to understand what multimedia is Students are able to understand Hypermedia Students are able to understand the World Wide Web Students are able to understand various types of multimedia software 	 Criteria: 1. The assessment criteria are carried out by looking at aspects: 2.1. Participation: carried out by observing student activities (weight 2) 3.2. UTS: carried out with an assessment during the middle of the semester (weight 2) 4.3. UAS: carried out every semester to measure all indicators (weight 3) 5.4. Task: carried out on each indicator (weight 3) 6. Student Final Grade: 7. Participation Score (2)%2 Lever Score (3)%2 UTS Score (3) divided by 10 Form of Assessment : Participatory Activities 	Discussion and Questions and Answers Presentation 2 X 50	Material: Meeting material 2 References: Ze Nian Li, Mark S drew. Fundamentals of Multimedia. 2004 Person	0%

3	Students are able to understand multimedia equipment and writing	 students are able to understand multimedia writing Students are able to understand the use of editing and writing equipment in Multimedia students are able to understand VRML 	 Criteria: 1. The assessment criteria are carried out by looking at aspects: 2.1. Participation: carried out by observing student activities (weight 2) 3.2. UTS: carried out with an assessment during the middle of the semester (weight 2) 4.3. UAS: carried out every semester to measure all indicators (weight 3) 5.4. Task: carried out on each indicator (weight 3) 6.Student Final Grade: 7.Participation Score (2)%2 Lever Score (3)%2 UTS Score (3) divided by 10 Form of Assessment : Participatory Activities 	Questions and answersDiscussionPresentation 2 X 50	Material: Meeting material 3 References: Ze Nian Li, Mark S drew. Fundamentals of Multimedia. 2004 Person	0%
4	Students are able to understand multimedia equipment and writing	 Students are able to understand multimedia writing Students are able to understand the use of editing and writing equipment in Multimedia Students are able to understand VRML 	 Criteria: 1. The assessment criteria are carried out by looking at aspects: 2.1. Participation: carried out by observing student activities (weight 2) 3.2. UTS: carried out with an assessment during the middle of the semester (weight 2) 4.3. UAS: carried out every semester to measure all indicators (weight 3) 5.4. Task: carried out out every semester to meach indicator (weight 3) 6. Student Final Grade: 7. Participation Score (2)%2 Lever Score (3)%2 UTS Score (3) divided by 10 Form of Assessment : Participatory Activities 	Questions and answersDiscussionPresentation 2 X 50		5%

5	Students are able to understand graphs and image representation of data	 Graphic / Image data type Various file formats 	 Criteria: 1. The assessment criteria are carried out by looking at aspects: 2.1. Participation: carried out by observing student activities (weight 2) 3.2. UTS: carried out with an assessment during the middle of the semester (weight 2) 4.3. UAS: carried out every semester to measure all indicators (weight 3) 5.4. Task: carried out on each indicator (weight 3) 6. Student Final Grade: 7. Participation Score (2)%2 Lever Score (3) divided by 10 Form of Assessment : Participatory Activities 	Discussion and question and answer presentation 2 X 50	Material: Meeting material 5 References: Ze Nian Li, Mark S drew. Fundamentals of Multimedia. 2004 Person	5%
6	Students are able to understand graphs and image representation of data	 Graphic / Image data type Various file formats 	 Criteria: 1. The assessment criteria are carried out by looking at aspects: 2.1. Participation: carried out by observing student activities (weight 2) 3.2. UTS: carried out with an assessment during the middle of the semester (weight 2) 4.3. UAS: carried out every semester to measure all indicators (weight 3) 5.4. Task: carried out on each indicator (weight 3) 6. Student Final Grade: 7. Participation Score (2)%2 Lever Score (3) divided by 10 Form of Assessment : Participatory Activities 	Discussion and question and answer presentation 2 X 50	Material: Meeting material 6 References: Ze Nian Li, Mark S drew. Fundamentals of Multimedia. 2004 Person	5%

7	Students are able to understand and study coloring in images and videos	Students are able to learn various coloring methods Students are able to study coloring models on images Students are able to study coloring models on videos	 Criteria: The assessment criteria are carried out by looking at aspects: Participation: carried out by observing student activities (weight 2) UTS: carried out with an assessment during the middle of the semester (weight 2) UAS: carried out every semester to measure all indicators (weight 3) A. Task: carried out on each indicator (weight 3) Student Final Grade: Participation Score (2)%2 UAS Score (3) divided by 10 Form of Assessment : Participatory Activities	Discussion and questions and answers Presentation 2 X 50	Material: Meeting material 7 Reader: Lars W. DSP Integrated Circuit. 1999. Academic Press	5%
8	Students are able to understand and study coloring in images and videos	Students are able to learn various coloring methods Students are able to study coloring models on images Students are able to study coloring models on videos	 Criteria: The assessment criteria are carried out by looking at aspects: 2.1. Participation: carried out by observing student activities (weight 2) 3.2. UTS: carried out with an assessment during the middle of the semester (weight 2) 4.3. UAS: carried out every semester to measure all indicators (weight 3) 5.4. Task: carried out out every semester (weight 3) 6. Student Final Grade: 7. Participation Score (2)%2 Lever Score (3)%2 UTS Score (3) divided by 10 Form of Assessment : Project Results Assessment / Product Assessment	Discussion and questions and answers Presentation 2 X 50	Material: Meeting material 1-7 References: Ze Nian Li, Mark S drew. Fundamentals of Multimedia. 2004 Person	10%

9	Students are able to understand and study coloring in images and videos	Students are able to learn various coloring methods Students are able to study coloring models on images Students are able to study coloring models on videos	Criteria: 1. The assessment criteria are carried out by looking at aspects: 2.1. Participation: carried out by observing student activities (weight 2) 3.2. UTS: carried out with an assessment during the middle of the semester (weight 2) 4.3. UAS: carried out every semester to measure all indicators (weight 3) 6. Student Final Grade: 7. Participation Score (2)%2 Lever Score (3) divided by 10 Form of Assessment : Participatory Activities, Project Results Assessment / Product Assessment	Discussion and questions and answers Presentation 2 X 50	Material: Meeting material 1-7 References: Ze Nian Li, Mark S drew. Fundamentals of Multimedia. 2004 Person	10%
10	Students are able to understand and study coloring in images and videos	Students are able to learn various coloring methods Students are able to study coloring models on images Students are able to study coloring models on videos	 Criteria: 1. The assessment criteria are carried out by looking at aspects: 2.1. Participation: carried out by observing student activities (weight 2) 3.2. UTS: carried out with an assessment during the middle of the semester (weight 2) 4.3. UAS: carried out every semester to measure all indicators (weight 3) 5.4. Task: carried out on each indicator (weight 3) 6. Student Final Grade: 7. Participation Score (2)%2 Lever Score (2)%2 UAS Score (3) divided by 10 Form of Assessment : Practice / Performance 	Discussion and questions and answers Presentation 2 X 50	Material: Meeting material 1-7 References: Ze Nian Li, Mark S drew. Fundamentals of Multimedia. 2004 Person	5%

11	Students are able to understand and study coloring in images and videos	Students are able to learn various coloring methods Students are able to study coloring models on images Students are able to study coloring models on videos	observing student activities (weight 2)	Discussion and questions and answers Presentation 2 X 50	Material: Meeting material 1-7 References: Ze Nian Li, Mark S drew. Fundamentals of Multimedia. 2004 Person	10%
12	Students are able to understand and study coloring in images and videos	Students are able to learn various coloring methods Students are able to study coloring models on images Students are able to study coloring models on videos	Criteria: 1. The assessment criteria are carried out by looking at aspects: 2.1. Participation: carried out by observing student activities (weight 2)	Discussion and questions and answers Presentation 2 X 50	Material: Meeting material 1-7 References: Ze Nian Li, Mark S drew. Fundamentals of Multimedia. 2004 Person	10%

13	Students are able to understand and study coloring in images and videos	Students are able to learn various coloring methods Students are able to study coloring models on images Students are able to study coloring models on videos	 Criteria: 1. The assessment criteria are carried out by looking at aspects: 2.1. Participation: carried out by observing student activities (weight 2) 3.2. UTS: carried out with an assessment during the middle of the semester (weight 2) 4.3. UAS: carried out every semester to measure all indicators (weight 3) 5.4. Task: carried out on each indicator (weight 3) 6.Student Final Grade: 7.Participation Score (2)%2 Lever Score (3)%2 UTS Score (3) divided by 10 Form of Assessment : Participatory Activities, Practice/Performance 	Discussion and questions and answers Presentation 2 X 50	Material: Meeting material 1-7 References: Ze Nian Li, Mark S drew. Fundamentals of Multimedia. 2004 Person	10%
14	Students are able to understand and study coloring in images and videos	Students are able to learn various coloring methods Students are able to study coloring models on images Students are able to study coloring models on videos	 Criteria: 1. The assessment criteria are carried out by looking at aspects: 2.1. Participation: carried out by observing student activities (weight 2) 3.2. UTS: carried out with an assessment during the middle of the semester (weight 2) 4.3. UAS: carried out every semester to measure all indicators (weight 3) 5.4. Task: carried out on each indicator (weight 3) 6. Student Final Grade: 7. Participation Score (2)%2 Lever Score (3) divided by 10 Form of Assessment : Participatory Activities, Practice/Performance 	Discussion and questions and answers Presentation 2 X 50	Material: Meeting material 1-7 References: Ze Nian Li, Mark S drew. Fundamentals of Multimedia. 2004 Person	10%

15	Students are able to understand and study coloring in images and videos	Students are able to learn various coloring methods Students are able to study coloring models on images Students are able to study coloring models on videos	 Criteria: 1. The assessment criteria are carried out by looking at aspects: 2.1. Participation: carried out by observing student activities (weight 2) 3.2. UTS: carried out with an assessment during the middle of the semester (weight 2) 4.3. UAS: carried out every semester to measure all indicators (weight 3) 5.4. Task: carried out on each indicator (weight 3) 6. Student Final Grade: 7. Participation Score (2)%2 Lever Score (3) %2 UTS Score (3) divided by 10 Form of Assessment : Participatory Activities, Practice/Performance 	Discussion and questions and answers Presentation 2 X 50	Material: Meeting material 1-7 References: Ze Nian Li, Mark S drew. Fundamentals of Multimedia. 2004 Person	5%
16	Students are able to understand and study coloring in images and videos	Students are able to learn various coloring methods Students are able to study coloring models on images Students are able to study coloring models on videos	 Criteria: The assessment criteria are carried out by looking at aspects: Participation: carried out by observing student activities (weight 2) UTS: carried out with an assessment during the middle of the semester (weight 2) UAS: UAS: carried out every semester to measure all indicators (weight 3) A. Task: carried out on each indicator (weight 3) S. Student Final Grade: Participation Score (2)%2 Lever Score (3)%2 UTS Score (3) divided by 10 Form of Assessment : Assessment of Project Results / Product	Discussion and questions and answers Presentation 2 X 50	Material: Meeting material 1-7 References: Ze Nian Li, Mark S drew. Fundamentals of Multimedia. 2004 Person	5%

Evaluation Percentage Recap: Case Study

Evaluation Percentage Necap. Case Study							
No	Evaluation	Percentage					
1.	Participatory Activities	52.5%					
2.	Project Results Assessment / Product Assessment	17.5%					
3.	Practice / Performance	30%					
		100%					

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.
- 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.
- 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.