

Universitas Negeri Surabaya Faculty of Engineering, Undergraduate Study Program, Fashion Design Education

Document Code

SEMESTER LEARNING PLAN

Courses			CODE				Cοι	ırse F	amil	у	С	redit	Wei	ght	:	SEMES	STER	Co	mpila te	tion
Textile Science			832120204	7			Des	ign &	Text	iles	Т	=2 F	P=0	ECTS=3.	18	2	2	Jul	/ 17, 2	2024
AUTHORIZA	ΓΙΟΝ		SP Develo	per			I			Cou	rse C	lust	er Co	ordinato	r :	Study	Progra	am Co	ordin	ator
			Ma'rifatun I	a'rifatun Nashikhah, SPd., M.Pd. Inty Nahari, S.Pd., M.Ds.							Imami Arum Tri Rahayu, S.Pd., M.Pd.									
Learning model	Case Studies																			
Program	PLO study program that is charged to the course																			
Learning Outcomes (PLO)	PLO-5	5 Have a professional attitude as an educator and practitioner in the field of fashion design which includes discipline, honesty, responsibility and cooperation.																		
	PLO-7	Skilled in designing teaching tools and applying them in learning in the field of fashion design																		
	PLO-10	Skilled in designing, carrying out research, analyzing and implementing research results in the field of fashion education and fashion skills competency																		
	Program Objectives (PO)																			
	PO - 1	Stude	nts have kno	wledg	ge and	und	ersta	nding	of T	extile	Scie	nce c	once	pts by uti	lizing	learnii	ng res	ources	and I	СТ
	PO - 2	Students have the ability to apply Textile Science in selecting materials for making clothing and various types of fabric construction																		
	PO - 3	Students are able to analyze clothing making materials and practice making simple fabric constructions																		
	PO - 4	Students have a responsible attitude in their own work and can be given responsibility for achieving work results in accordance with assessment standards																		
	PLO-PO Matrix																			
			P.O		PLC	D-5			PLO-	7		PL	O-10							
			PO-1																	
			PO-2																	
			PO-3																	
			PO-4																	
	PO Matrix at t	he end	of each lea	arnin	a staa	ie (S	Sub-l	PO)												
					9 - mg	,- (-		-,												
			P.0									We	ek							T
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	1
		PC)-1	1										+				-		1
		PC)-2										\vdash							1
		PC)-3	1									\vdash							1
		PC)-4																	1
Short Course Description	This course is a fabric fibers, vai the classification various types o construction in cout online throu and others that a	in under rious typ n of the of fabric: clothing gh seve are appr	rstanding of oes of fabric origin of fab s, lining ma making and ral platforms opriate to th	the c cons pric fik aterials textile s such e lear	oncept tructior pers fro s, linin e care/i n as G ming m	t of t n, va om n ng m refin soogl nater	extile arious natura iateri ing. I e Cla ial.	e scie s type al anc als a n imp assroo	nce i s of f l artif ccord leme om, C	n the fabric icial (ling t enting Googl	field accc (synth o tex lectu e Me	of clo ording nesis) ttile r res d et, G	othin y to to). The nater luring oogle	g as well extile mat e discuss rials and g the Covi e Form, V	as a erials on is also d-19 VAG	n intro s. The deepe under pande (Whats	duction discus ened b standi standi mic, le sapp C	n to th sion b ny und ng ba earning Group)	e orig egins erstar sic w j is ca , You]	in of with oven rried rube
References	Main :																			
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		 Kusrianto, Adi. 2017. Pengetahuan Bahan Tekstil. Surabaya: Adi Kusrianto Literary Agent Harris, jennifer. 2010. 5000 years of textiles. London: British Museum Siti, S dan Juhrah, S. 2009. Ilmu Tekstil. Surabaya: Unesa University Press Kadolph, Sara J.2007. Textiles. New Jersey: Pearson Education. Inc. Humpries, Mary. 2004. Fabric Glossary. New Jersy: Pearson Prentice Hall Siegert, Dorothy L. 1982. Modern Textile. New York: John Wiley& Sons Hartanto, Sugiarto & Watanabe, Shigeru.1980. Teknologi Textil. Jakarta: Dainippon gitakarya Printing. Soeprijono,P. dkk. 1973. Serat-Serat Tekstil. Bandung: ITT 							
		Supporters:							
Support lecturer	ing	Dr.Sn. Inty Naha Maʻrifatun Nashil	ri, S.Pd., M.Ds. khah, S.Pd., M.Pd.						
Week-	Fin eac sta	al abilities of h learning ge	Evalı	uation	He Lear Stude [E	elp Learning, ning methods, nt Assignments, stimated time]	Learning materials [References	Assessment Weight (%)	
	(Su	Ď-PO)	Indicator	Criteria & Form	Offline(offline)	Online (<i>online</i>)	1		
(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)	
1	St ex co Sc	udents can plain the ncept of Textile ience	 Explain the concept of textile science in the field of clothing Describe the science of textiles in the field of clothing Analyzing the role of textile science in the fashion sector 	Criteria: TOTAL 100 Form of Assessment : Test	Discussion Group Presentation (online Learning & problem based learning) 2 X 50	Synchronous learning via video conference Vinesa/ Google Classroom: 1. Discussion on agreeing on the lecture contract 2. Lecture explaining the RPS for the course 3. Discussion of the concept of textile science in the field of clothing 2 X 50	Material: Textile Science concepts Bibliography: Kadolph, Sara J. 2007. Textiles. New Jersey: Pearson Education. Inc.	2%	
2	ur or fal ind he ar	derstand the igin of natural oric fibers cluding cotton, mp, pineapple d jute etc	 Explain the meaning of natural fiber Identify various types of natural fibers (plants & animals) Analyze the characteristics of various natural fibers (plants & animals) Explain the use of textiles with natural fibers 	Criteria: TOTAL 100 Form of Assessment : Participatory Activities	Class learning: 1. Lecture explaining the material 2. Questions and answers related to the 2 X 50 material		Material: natural origin of fabric fibers. Reference: Kadolph, Sara J. 2007. Textiles. New Jersey: Pearson Education. Inc.	8%	
3	St ar ch th fib (s	udents can alyze the aracteristics of e origin of fabric ers from artificial ynthesis)	 Explain the meaning of artificial fiber (synthesis) Identify various types of artificial fibers (synthesis) Analyze the characteristics of various artificial fibers (synthesis) Explain the use of artificial textiles (synthesis) 	Criteria: The score is given to the answer to the question according to the answer key (attached) Total 100 Form of Assessment : Test	Discussion Group Presentation (online Learning & problem based learning) 2 X 50	Synchronous learning via Vinesa/Google Classroom video conference: 1. Lecture explaining the material 2. Questions and answers related to the material 3. 2 X 50 quiz	Material: artificial fabric fibers (synthesis) Reference: Kusrianto, Adi. 2017. Textile Material Knowledge. Surabaya: Adi Kusrianto Literary Agent	5%	

4	Understand fabric construction from a basic plain cross weave	• Explain the meaning of plain cross basic weave, Analyze the character of plain cross, Explain the use of textiles with plain cross, Make fabric construction from plain basic weave	Criteria: TOTAL 100 Form of Assessment : Test	Learning in class: 1. Lecture explaining the material 2. Assignment to make fabric construction from plain basic weave 2 X 50		Material: fabric construction from plain weave. Reference: Kadolph, Sara J. 2007. Textiles. New Jersey: Pearson Education. Inc.	7%
5	Students can identify fabric construction from basic plain weave, twill, satin	• Explain the meaning of twill cross basic weave, Analyze the characteristics of twill cross, Explain the use of textiles with twill cross, Make fabric construction from twill basic weave	Criteria: TOTAL 100	Learning in class: 1. Lecture explaining the material 2. Assignment to make fabric construction from 2 X 50 twill basic weave			7%
6	Students can identify fabric construction from basic plain weave, twill, satin	• Explain the meaning of basic satin cross weave, Analyze the characteristics of satin cross, Explain the use of textiles with satin cross, Make fabric construction from basic satin weave	Criteria: TOTAL 100	Learning in class: 1. Lecture explaining the material 2. Assignment to make fabric construction from 2 X 50 satin basic weave		Material: fabric construction from a basic satin weave. Reference: Humpries, Mary. 2004. Fabric Glossary. New Jersey: Pearson Prentice Hall	7%
7	Students can identify fabric construction from Nonwoven (without woven)	• Explaining Nonwoven fabric (without woven), Analyzing the characteristics of Nonwoven fabric (without woven), Explaining the use of textiles	Criteria: The score is given to the answer to the question according to the answer key (attached) Total 100 Form of Assessment : Test	Discussion Group Presentation (online Learning & problem based learning) 2 X 50	Synchronous learning via Vinesa/Google Classroom video conference: 1. Lecture explaining the material 2. Questions and answers related to the material 2 X 50	Material: nonwoven fabric construction Reader: Harris, Jennifer. 2010. 5000 years of textiles. London: British Museum	8%
8	UTS		Criteria: Total 100	2 X 50			0%
9	Students can identify various types of fabric according to textile materials	 explain the various types of fabric according to textile materials explains the application of various fabrics according to textile materials in clothing identify and differentiate various types of fabric according to textile materials 	Criteria: Total 100 Form of Assessment : Test	Discussion Group Presentation (online Learning & problem based learning) 2 X 50	Synchronous learning via Vinesa/Google Classroom video conference: 1. Lecture explaining the material 2. Questions and answers related to the material 2 X 50	Material: various types of fabric according to textile materials. Reference: Humpries, Mary. 2004. Fabric Glossary. New Jersey: Pearson Prentice Hall	5%

10	Students can identify various types of interlining and lining materials.	• Explain the meaning of interlining materials, Analyze various types of interlining materials, Explain the use of various interlining materials in clothing	Criteria: Total 100 Form of Assessment : Test	Discussion Group Presentation (online Learning & problem based learning) 2 X 50	Synchronous learning via Vinesa/Google Classroom video conference: 1. Lecture explaining the material 2. Questions and answers related to the material 2 X 50	Material: various interlining materials and lining materials. Reference: Humpries, Mary. 2004. Fabric Glossary. New Jersey: Pearson Prentice Hall	5%
11	Understand the various types of lining materials	1. Explain the meaning of lining material 2. Explain the various types of lining materials 3. Explain the use of various types of lining materials in clothing	Criteria: Total 100	Discussion Group Presentation (online Learning & problem based learning) 2 X 50			0%
12	Students can identify the construction of knitted fabrics and examples of applications of knitted fabrics	• Explain the meaning of knitted fabric • Analyze various types of knitted fabric • Explain the use of various knitted fabrics	Criteria: Total 100 Form of Assessment : Test	Learning in class: 1. Lecture explaining the material 2. Questions and answers related to the material (Phase 1-2 PBL) 1. Orientation to the problem (after giving an explanation in class, students are given problems related to the next material) 2. Organizing students to learn (students are given directions to find sources according to existing material) 2 X 50		Material: knitted fabric Reference: Humpries, Mary. 2004. Fabric Glossary. New Jersey: Pearson Prentice Hall	0%
13	Students can identify dyes and dyes in textile finishing fabrics and test textile fibers	 able to explain the meaning of dyes and coloring in fabric able to identify various dyes and coloring substances in fabric able to distinguish dyes and dyes in fabric 	Criteria: Total 100 Form of Assessment : Practice / Performance	Learning in class: Phase 3 PBL: 1. Carrying out an investigation (the problem raised at the previous meeting becomes a provision for students to carry out an investigation) 2 X 50		Material: dyes and coloring in fabrics Reference: Hartanto, Sugiarto & Watanabe, Shigeru. 1980. Textile Technology. Jakarta: Dainippon gitakarya Printing.	10%

14	Students can identify dyes and dyes in textile finishing fabrics and test textile fibers	Explain how to test fiber types using a burning test • Explain how to test fibers using a chemical test • Be able to identify textile fibers using a burning test	Criteria: Total 100 Form of Assessment : Practice / Performance	Classroom learning: (Phase 4 PBL) 1. Develop and present the results of the work (each student who successfully solves the problem, presents the results) 2 X 50		Material: textile fiber test Reference: Soeprijono, P. et al. 1973. Textile Fibers. Bandung: ITT	0%
15	Students can implement Textile Science theory in the manufacture and care of clothing materials and evaluate them independently	1. Explain the meaning of textile material care 2. Explain the characteristics of textile material care3. Identify the various types of care for textile materials 4. Applying textile material care to everyday clothing	Criteria: Total 100 Form of Assessment : Test	Classroom learning: (Phase 5 PBL) 1. Analyze and evaluate the problem solving process 2 X 50	Synchronous learning via Vinesa video conference/ Google Classroom: (Phase 5 PBL) 1. Analyze and evaluate the problem solving process 2 X 50	Material: care of textile materials Reference: Humpries, Mary. 2004. Fabric Glossary. New Jersey: Pearson Prentice Hall	0%
16	UAS		Criteria: Total 100	2 X 50			0%

Evaluation Percentage Recap: Case Study

No	Evaluation	Percentage	
1.	Participatory Activities	8%	
2.	Practice / Performance	10%	
3.	Test	32%	
		50%	

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** abilities in the process and student learning outcomes are specific and measurable statements that identify the abilities 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.