

Course Syllabus

- 1. Course Title: Garment Washing Technology** **Course Code: WATE324551**
2. Credit Units: 2 (2/0/4) (2 units of theory, 0 unit of practice, 4 units of self-study)
 Duration: 15 weeks (15 hours of theory + 0 hours of practice, 60 hours of self-study per week)
3. Course Instructors
 1/ M.BA. Pham Thi Ha
4. Course Requirements
 Prerequisite courses: Textiles Materials.

5. Course Descriptions

The course equips students with knowledge about Wash Jeans Technology, denim fabric production and finishing process, indigo dyeing technology From then on, students will know the wash effects on the product, types of chemicals, tools and equipment used to create wash effects on Jean's products.

6. Course Goals

Goals	Goal descriptions	ELOs	Scale
G1	Applying natural science knowledge to analyze the chemicals used in dyeing Denim fabric and in wash Jeans technology.	ELO-02	4
G2	Analyzing the influence of mechanical and physical factors and chemistry on the surface of Jeans products to create fashion effects.	ELO-04 ELO-06	3 3
G3	Read and understand the relevant documents in the field of Wash Jeans in English.	ELO-11	3

7. Course Learning Outcomes (CLOs)

CLOs	CLO Descriptions	ELOs	Scale
G1 CLO1	Distinguish chemicals used in dyeing cotton fibers and jean products washing technology.	ELO-02	4
G2 CLO2	Explain wash technology of jeans, quantify the concentration of chemicals, the duration of mechanical and physical agents to produce the desired fashion effect on Jean products.	ELO-04	3
CLO3	Determine and propose solutions to handle situations arising in the wash Jeans process.	ELO-06	3
G3 CLO4	Manipulate relevant documents in Jean Wash through English.	ELO-11	3

8. Learning Ethics:

Students must do homework by themselves. If plagiarism is found students will get zero point. Need a full quote of reference sources.

9. Course Content:

Week	Contents	CLOs	CPT
	CHAPTER 1: DENIM & JEANS - HISTORY OF ESTABLISHMENT AND DEVELOPMENT		
1	A/ Content and pedagogical methods in class: (2) Content 1. Denim - History and development 1.1. Denim - The origin of the name 1.2 History and development 2. Jeans - History and development 2.1. Jean - The origin of the name 2.2. History of Jeans 2.2.1 Jeans 2.2.2. Levi Strauss - "father" of Jeans pants	CLO1 CLO2 CLO3 CLO4	3

	2.2.3 The first Jeans brand in the world		
	B/ Self-study contents: (4) Problem 1: Photo collection of fashion models about Jeans pants so far	CLO1 CLO2 CLO3 CLO4	3
	CHAPTER 1: DENIM & JEANS - HISTORY OF ESTABLISHMENT AND DEVELOPMENT (continued)		
2	A/ Content and pedagogical methods in class: (2) Content 3. The development of Jeans fashion in the world 3.1. Jeans Fashion in the early 19th century. 3.2. Jeans for every gender, every class. 3.3. Current trend of Jeans fashion.	CLO1 CLO2 CLO3 CLO4	3
	B/ Self-study contents: (4) + Learn the composition of fibers used to produce Denim fabric	CLO1 CLO2 CLO3 CLO4	3
	CHAPTER 2: JEANS FABRIC PRODUCTION PROCESS		
3	A/ Content and pedagogical methods in class: (2) Content 1. Cotton: 1.1. Cotton fibre 1.2. How is Cotton selected for Jeans? 2. Jeans weave: 2.1. Twill fiber 2.2. Textile type	CLO1 CLO2 CLO3 CLO4	3
	B/ Self-study contents: (4) Overview about cotton fibre	CLO1 CLO2 CLO3 CLO4	3
	CHAPTER 2: JEANS FABRIC PRODUCTION PROCESS (continued)		
4	A/ Content and pedagogical methods in class: (2) Content 3. Dyeing of jeans fabric 3.1. Indigo 3.2. Indigo synthesis 3.3. Non-indigo 3.4. Basic color of denim fabric	CLO1 CLO2 CLO3 CLO4	3
	B/ Self-study contents: (4) + Making samples indigo dye (using white cotton fabric)	CLO1 CLO2 CLO3 CLO4	3
	CHAPTER 2: JEANS FABRIC PRODUCTION PROCESS (continued)		
5	A/ Content and pedagogical methods in class: (2) Content 4. Jean finishing 5. Standard of Denim fabric	CLO1 CLO2 CLO3 CLO4	3
	B/ Self-study contents: (4) Learn the basic Denim fabric colors.	CLO1 CLO2 CLO3 CLO4	3
6	CHAPTER 2: JEANS FABRIC PRODUCTION PROCESS (continued)		

	A/ Content and pedagogical methods in class: (2) <i>Content</i> Presentation Problem 1 (group)	CLO1 CLO2 CLO3 CLO4	3
	B/ Self-study contents: (4) Problem 2: Learn the wash effects often are found on Jeans.	CLO1 CLO2 CLO3 CLO4	3
Chapter 3: WASHING TECHNOLOGY ON JEANS			
7	A/ Content and pedagogical methods in class: (2) <i>Content</i> 6. Dry processes 6.1. Sand blasting 6.2. Brushing 6.3. Grinding 6.4. Whiskers, tagging, 3D crush effects 6.5. Resin application	CLO1 CLO2 CLO3 CLO4	3
	B/ Self-study contents: (4) Identify dry wash effects on the Jeans which you collect.	CLO1 CLO2 CLO3 CLO4	3
Chapter 3: WASHING TECHNOLOGY ON JEANS (continued)			
8	A/ Content and pedagogical methods in class: (2) <i>Content</i> Problem 3 (Group exercises): Identification and process analysis to create dry wash effects.	CLO1 CLO2 CLO3 CLO4	3
	B/ Self-study contents: (4) Identify dry wash effects on the Jeans which you collect.	CLO1 CLO2 CLO3 CLO4	3
Chapter 3: WASHING TECHNOLOGY ON JEANS (continued)			
9	A/ Content and pedagogical methods in class: (2) <i>Content</i> Wet processes <u>1.</u> Garment wash, rinse wash <u>2.</u> Washing with chemical: 2.1. Enzym wash (Bio wash) 2.2. Bleaching 2.3. Acid wash 2.4. Tintin 2.5. Over dye	CLO1 CLO2 CLO3 CLO4	3
	B/ Self-study contents: (4) + Identify wet wash effects on the Jeans which you collect.	CLO1 CLO2 CLO3 CLO4	3
Chapter 3: WASHING TECHNOLOGY ON JEANS (continued)			
10	A/ Content and pedagogical methods in class: (2) <i>Content</i> 3. Washing with mechanical impact: 3.1. Stone wash 3.2. Bio stone wash 3.3. Sand wash 4. Soften	CLO1 CLO2 CLO3 CLO4	3

	<i>B/ Self-study contents: (4)</i> Identify wet wash effects on the Jeans which you collect.	CLO1 CLO2 CLO3 CLO4	3
	Chapter 3: WASHING TECHNOLOGY ON JEANS (continued)		
11	<i>A/ Content and pedagogical methods in class: (2)</i> <i>Content</i> Problem 3 (class test/Group exercises): Identification and process analysis to create wet wash effects.	CLO1 CLO2 CLO3 CLO4	3
	<i>B/ Self-study contents: (4)</i> Identify process of wash effects on the Jeans which you collect.	CLO1 CLO2 CLO3 CLO4	3
	Chapter 3: WASHING TECHNOLOGY ON JEANS (continued)		
12	<i>A/ Content and pedagogical methods in class: (2)</i> <i>Content</i> 3. New effect on jeans 3.1. Ozone fading 3.2. Laser fading 4. Dyeing of ready-made jeans	CLO1 CLO2 CLO3 CLO4	4
	<i>B/ Self-study contents: (4)</i> Identify process of wash effects on the Jeans which you collect.	CLO1 CLO2 CLO3 CLO4	
	Chapter 3: WASHING TECHNOLOGY ON JEANS (continued)		
13	<i>A/ Content and pedagogical methods in class: (2)</i> <i>Content</i> Problem 4 (Mid-term test): Analysis of wash process on available Jeans.	CLO1 CLO2 CLO3 CLO4	4
	<i>B/ Self-study contents: (4)</i> Identify process of wash effects on the Jeans which you collect.	CLO1	4
	Chapter 3: WASHING TECHNOLOGY ON JEANS (continued)		
14	<i>A/ Content and pedagogical methods in class: (2)</i> <i>Content</i> Presentation Problem 2	CLO1 CLO2 CLO3 CLO4	3
	<i>B/ Self-study contents: (4)</i> + Review the end of the subject	CLO1 CLO2 CLO3 CLO4	
	Chapter 3: WASHING TECHNOLOGY ON JEANS (continued)		
15	<i>A/ Content and pedagogical methods in class: (2)</i> <i>Content</i> + Review the end of the subject + Answering questions of students	CLO1 CLO2 CLO3 CLO4	3
	<i>B/ Self-study contents: (4)</i> + Review the end of the subject	CLO1 CLO2 CLO3 CLO4	3

10. Student Assessment:

- Grading scale: **10**
- Assessment plan:

Type	Content	Timeline	CLOs	Scale	Assessment method	Assessment tool	Rate (%)
Formative Assessment							50
Problem 1	Photo collection of fashion models about Jeans pants	Week 1	CLO1 CLO2 CLO3 CLO4	3	Group presentation	Rubrics	10
Problem 2	Learn the wash effects on Jeans.	Week 14	CLO1 CLO2 CLO3 CLO4	3	Group presentation	Rubrics	20
Problem 3	Identification and process analysis to create dry wash effects. Identification and process analysis to create wet wash effects.	Week 8/11	CLO1 CLO2 CLO3 CLO4	4	Writing/ individual	Rubrics	30
Problem 4	Analysis of wash process on available Jeans.	Week 13	CLO1 CLO2 CLO3 CLO4	4	Writing/ individual	Rubrics	40
Final examination							
	Essay writing, personal		CLO1 CLO2 CLO3 CLO4	4		Rubrics	

CLOs	Assessment Types				
	Ex#1	Ex#2	Ex#3	Ex#4	Final exam
CLO1	x	x	x	x	x
CLO2	x	x	x	x	x
CLO3	x	x	x	x	x
CLO4	x	x	x	x	x

11. Learning Resources

12. Date of first approval: June 15, 2018

13. Approved by:

Dean

Head of Department

Instructor





M.Ed. Vu Minh Hanh

Dr. Nguyen Ngoc Chau

M.BA. Pham Thi Ha

14. Date and up-to-date content

1 st time: Date	Instructor
	Head of Department