

Course Syllabus

- 1. Course Name: Textile Finishing Process** **Course Code: FFTE325551**
- 2. Credit Units: 2 (2/0/4)** (2 units of theory, 0 unit of experiment, 4 units of self-study)
 Duration: 10 weeks (3 hours of theory + 0 hours of practice, 6 hours of self-study per week)
- 3. Course Instructors**
 1/ Dr. Nguyen Phuoc Son
 2/ Dr. Nguyen Tuan Anh
 3/ M.Sc. Ta Vu Thuc Oanh
 4/ M.Sc. Nguyen Thi Luyen
- 4. Course Requirements**
 Prerequisite courses: None
 Previous courses: None

5. Course Descriptions

This course provides the fundamental knowledges such as definition, principle, properties, effect factors and applications of functional finishes for fabrics including singeing, raising, calendering, washing (with heat, pressure, enzyme and stone), antibacterial finishing, water repellence, fire retardance, pilling resistance, ultra-violet resistance, smell inducing, etc. Accordingly, student can apply the knowledge to identify, analyze, evaluate and solve the problem of quality management for textile products.

6. Course Goals

Goals	Goal descriptions	ELOs	Scale
G1	Knowledge of structure and properties of common greig fabrics in garment manufacturing processes	ELO-02	2
G2	Ability to identify, analyse, evaluate and control the quality of usual fabrics	ELO-04	3
		ELO-05	2
	Ability to choose and propose the appropriate finishing processes to the specific fabrics	ELO-07	2
G3	Communication and teamwork skills, information searching and synthesizing.	ELO-09	4
		ELO-10	3

7. Course Learning Outcomes (CLOs)

CLOs	CLO Descriptions	ELOs	Scale
G1	CLO1 Classify specific fabrics and fabric finishing technologies	ELO-02	2
G2	CLO2 Interpret problems of dyeing, printing and finishing fabrics	ELO-04	3
	CLO3 Identify applications of textile treatments	ELO-05	2
	CLO4 Select personal skills to work efficiently	ELO-07	2
G3	CLO5 Connect teamwork activities in disciplinary groups	ELO-09	4
	CLO6 Establish communications such as text, emails, graphics	ELO-10	3

8. Learning Ethics:

Students must do homework by themselves. If plagiarism is found students will get zero point.

9. Course Contents:

Week	Contents	CLOs	Scale
1	<i>Chapter 1: Overview</i>		
	<i>A/ Content and pedagogical methods in class: (3)</i>	CLO1	2
	<i>Content</i>	CLO2	3
	1.1. Concepts 1.2. Significances 1.3. Classification		

	<i>Pedagogical methods</i> <i>Presentation, movies, Q&A</i>		
	<i>B/ Self-study contents: (6)</i> (1) Find out the fabric finishing processes on internet in Vietnam (2) Find out the job positions related to the fabric finishing processes	CLO2	3
	<i>Chapter 2: Mechanical Finishes</i>		
2	<i>A/ Content and pedagogical methods in class: (3)</i> <i>Content</i> 2.1. Introduction 2.2. Sanforizing finishes 2.3. Abrasing finishes <i>Pedagogical methods</i> <i>Presentation, movies, Q&A</i>	CLO1 CLO2	2 3
	<i>B/ Self-study contents: (6)</i> Find out the methods to determine the shrinkages of fabrics	CLO2	3
	<i>Chapter 2: Mechanical Finishes (continued)</i>		
3	<i>A/ Content and pedagogical methods in class: (3)</i> <i>Content</i> 2.4. Raising finishes 2.5. Hair shearing finishes 2.6. Washing finishes <i>Pedagogical methods</i> <i>Presentation, movies, Q&A</i>	CLO1 CLO2	2 3
	<i>B/ Self-study contents: (6)</i> Find out the treatment solution for washing fabrics	CLO2	3
	<i>Chapter 2: Mechanical Finishes (continued)</i>		
4	<i>A/ Content and pedagogical methods in class: (3)</i> <i>Content</i> 2.7. Calendering finishes 2.8. Open-width treatment 2.9. Heat setting processes <i>Pedagogical methods</i> <i>Presentation, movies, Q&A</i>	CLO1 CLO2	2 3
	<i>B/ Self-study contents: (6)</i> Analyze the effect factor of finishing processes on the fabric quality	CLO2	3
	<i>Chapter 3: Chemical Finishes</i>		
5	<i>A/ Content and pedagogical methods in class: (3)</i> <i>Content</i> 3.1. Concepts 3.2. Softening treatment 3.3. Crease resistant treatment <i>Pedagogical methods</i> <i>Presentation, movies, Q&A</i>	CLO1 CLO2 CLO5	2 3 4
	<i>B/ Self-study contents: (6)</i> Explain the principle for crease resistance	CLO2	3
6	<i>Chapter 3: Chemical Finishes (continued)</i>		

	A/ Content and pedagogical methods in class: (3) Content 3.4. Water repelling finishes 3.5. Antimicrobial finishes 3.6. Fire retardant finishes 3.7. Static resistant finishes 3.8. Pilling resistant finishes 3.9. UV resistant finishes Pedagogical methods Presentation, movies, Q&A	CLO1 CLO2 CLO5	2 3 4
	B/ Self-study contents: (6) Show the principles of water repellence and fire resistance	CLO2	2
	Chapter 3: Chemical Finishes (continued)		
	A/ Content and pedagogical methods in class: (3) Content 3.11. Smelling treatment 3.12. Rotting resistant treatment 3.13. Fully handling treatment Pedagogical methods Presentation, movies, Q&A	CLO1 CLO2 CLO5	2 3 4
7	B/ Self-study contents: (6) Explain the reason why the cotton fabric should be remove the bad smelling.	CLO2	2
	Chapter 4: Design of processing for specific fabric treatment		
	A/ Content and pedagogical methods in class: (3) Content 4.1. Functional finishes of cotton fabrics Pedagogical methods Presentation, movies, Q&A	CLO1 CLO2 CLO5	2 3 4
8	B/ Self-study contents: (6) Find the information of finishes for wool fabrics	CLO2	2
	Chapter 4: Design of processing for specific fabric treatment (continued)		
	A/ Content and pedagogical methods in class: (3) Content 4.2. Functional finishes of wool fabrics 4.3. Functional finishes of silk fabrics Pedagogical methods Presentation, movies, Q&A	CLO1 CLO2	2 3
9	B/ Self-study contents: (6) Find the information of finishes for wool fabrics	CLO2	2
	Chapter 4: Design of processing for specific fabric treatment (continued)		
	A/ Content and pedagogical methods in class: (3) Content 4.4. Functional finishes of synthetic fabrics 4.5. Functional finishes of blended fabrics Pedagogical methods Presentation, movies, Q&A	CLO1 CLO2	2 3
10	B/ Self-study contents: (6) Find the information of finishes for synthetic fabrics	CLO2	2

10. Student Assessment:

- Grading scale: **10**

- Assessment plan:

Type	Content	Timeline	CLOs	Scale	Assessment method	Assessment tool	Rate (%)
Formative Assessment							50
Problem 1	(1) Find out the fabric finishing processes on internet in Vietnam (2) Find out the job positions related to the fabric finishing processes	Week 2	CLO1 CLO2 CLO6	2 3 3	Essay	Rubric	10
Problem 2	Quizzes in class for chapter 2 (30 minutes)	Week 5	CLO1 CLO2	2 3	Quizzes	Rubric	20
Problem 3	Translate English materials of textile finishes into Vietnamese and receive the feedbacks form lecturers and classmates	Week 9	CLO1 CLO4 CLO5 CLO6	2 2 4 3	Essay	Rubric	20
Summative Assessment							50
VD 1	Based on the learnt knowledge, the group (3 students) is required to make the videoclip to guide the process of fabric finish	Week 2-9	CLO1 CLO2 CLO3	2 3 2	Video	Rubric	25
PPT 1	Report a specific topic of textile treatment (PPT)	Week 10	CLO1 CLO2	2 3	Presentation	Rubric	25

CLOs	Assessment Types				
	Problem #1	Problem #2	Problem # 3	VD # 4	PPT #1
CLO1	x	x	x	x	x
CLO2	x	x		x	x
CLO3				x	
CLO4			x		
CLO5			X		
CLO6	x		x		

11. Learning Resources

- Textbooks:

1. **Nguyen Tuan Anh** - Textile Materials - National Publisher in HCMC - 2012.
2. **Nguyen Tuan Anh** - Fabric Finishing Processes - National Publisher in HCMC - 2012.

- References:

1. Nguyen Van Lan, Textile Materials, HCMUT, 1999
2. Nguyễn Trung Thu, Textile Materials, HUST, 1999
3. Tran Thuy Binh, Le Thi Hoa Mai - Textbook of Textile Materials - Education Publisher - 2005
4. Nguyen Cong Toan - Dyeing and Finishing Technology, National Publisher in HCMC, 2005
5. Kathryn L. Hatch - Textile Science - USA, 1993

12. Date of first approval: June 15, 2018

13. Approved by:

Dean

Head of Department

Instructor



Vu Minh Hanh, M.Ed



Nguyen Ngoc Chau, PhD



Dr. Nguyen Tuan Anh

14. Date and up-to-date content

1st time: Date	Instructor Head of Department
----------------------------------	---