

Course Syllabus

1. Course Title: Embroidery and Printing Technology

2. Course Code: EAPT422651

3. Credit Units: 2 (2/0/4) (2 units of theory/ 0 unit of practice/ 4 units of self-study)

Duration: 10 weeks (3 hours of theory+0 hours of practice, and 6 hours of self-study per week)

4. Course Instructors

1/ MSc. Tran Thi Cam Tu

5. Course Requirements

Prerequisite courses: Garment Manufacturing Technology, Clothing Manufacturing Preparation

Previous courses: None

Parallel courses: None

6. Course Description

This module refers to basic knowledge on: printing and embroidery technology such as general introduction printing and embroidery technologies on fabric, inspection process and quality assessment criteria.

7. Course Goals

<i>Goals</i>	<i>Goal description</i> This subject equips students:	<i>ELOs</i>	<i>Scale</i>
G1	Foundational knowledge in the field of printing and embroidery: techniques for printing on fabric; preproduction and deployment of printing processes on fabric; quality of printed products; concept of handmade embroidery, machine embroidery and computer embroidery; types of computer embroidery machines; characteristics of computer embroidery; hardware & software of computer embroidery	ELO-01	2
G2	Personal characters in the field of printing and embroidery	ELO-04 ELO-05 ELO-06 ELO-07	3 3 2 3
G3	Teamwork and communication skills	ELO-10 ELO-11	2 2
G4	Business, society and environment	ELO-12 ELO-13	3 3

8. Course Learning Outcomes (CLOs)

<i>CLOs</i>	<i>CLO Description</i>	<i>ELOs</i>	<i>Scale</i>
G1	CLO1 Define, classify and explain the background knowledge in the field of printing and embroidery	ELO-01	2
G2	CLO2 Determine troubles in apparel industry in the field of printing and embroidery	ELO-04 ELO-05	3
	CLO3 Interpret specifications of embroidery and printing products	ELO-06	3
	CLO4 Select good personal skills and attitudes in order to achieve best studying and reseaching results	ELO-07	3
G3	CLO5 Apply and communicate proficiently various documents such as paper, email, graphic software and presentation	ELO-10	2
	CLO6 Read and understand English materials in the field of	ELO-11	2

		printing and embroidery		
G4	CLO7	Identify important role of technical operations towards environment and society	ELO-12 ELO-13	3

9. Learning Ethics

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

10. Course Content

Week	Content	CLOs	Scales	Teaching methods	Evaluation methods
	Chapter 1: Introduction to Printing on fabrics (3,0,6)				
1	A/ Content and pedagogical methods in class: (3) Content: INTRODUCTION TO LEARNING - Introduce the objectives and content of the subject - Introduce students to study methods - Introducing references and assessment Chapter 1. Printing on fabrics 1.1 Concept of Printing on fabrics + General introduction about fabric printing technology + History of formation and development of fabric printing techniques + Classify current printing techniques (screen printing, heat transfer, digital printing) + Principle of operation, and advantages and disadvantages of silk screen printing techniques + Principle of operation and advantages and disadvantages of heat transfer printing techniques + Principles of operation and pros and cons of digital printing techniques Pedagogical methods: + Presentation of lecture + Focus group discussion	CLO1 CLO2 CLO6 CLO7	2 3 2 3	Lecture; PPT; illustrating images	Q&A
	B/ Self-study content: (6) Task#1. Find 3 types of printing technology products, identify and classify them	CLO1 CLO6	2		
2-3	Chapter 1: Introduction to Printing on fabrics (6,0,12)				

	A/ Content and pedagogical methods in class: (6) Content: 1.2 Silk Printing Technology a, Prepare production of raw materials, technology, and equipment b, Production process: - Prepare frames and glue mixes - Take printed film - Mixing ink - Trial printing - Mass printing Pedagogical methods: + Presentation of lecture + Group discussion	CLO1 CLO2 CLO6 CLO7	2 3 2 3	Lecture; PPT; illustrating images	Q&A
	B/ Self-study content: (12) Task#2. Collect silk screen printing products, and analyze their characteristics	CLO1	2		
	Chapter 1: Introduction to Printing on fabrics (3,0,6)				
4	A/ Content and pedagogical methods in class: (6) Content: C, Fashion effects on screen printing products: - FLOCKING printing method - UV printing method - RUBBER printing method - Tinsel printing method Pedagogical methods: + Presentation of lecture + Group discussion	CLO1 CLO2 CLO6 CLO7	2 3 2 3	Lecture; PPT; illustrating images	Exercise
	B/ Self-study content: (12) Task#3. Find fashion effects silk screen prints				
	Chapter 1: Introduction to Printing on fabrics (3,0,6)				
5	A/ Content and pedagogical methods in class: (6) Content: 1.3. Heat Transfer Technology + Prepare production of raw materials, technology, and equipment + Production process Pedagogical methods: + Presentation of lecture + Group discussion	CLO1 CLO2 CLO6 CLO7	2 3 2 3	Lecture; PPT; illustrating images	Exercise
	B/ Self-study content: (12) Task#4. Collect heat transfer products, and analyze their characteristics	CLO2	3		
	Chapter 1: Introduction to Printing on fabrics (3,0,6)				
6	A/ Content and pedagogical methods in class: (6) Content: 1.4. Digital Printing Technology + Prepare production of raw materials,	CLO1 CLO2 CLO6 CLO7	2 3 2 3	Lecture; PPT; illustrating images	Exercise

	<p>technology, and equipment + Production process</p> <p>Pedagogical methods: + Presentation of lecture + Group discussion</p>				
	<p>B/ Self-study content: (12) Task#5. Collect digital printing products and analyze their characteristics</p>	<p>CLO1 CLO2 CLO6 CLO7</p>	<p>2 3 2 3</p>		
	<p>Chapter 1: Introduction to Printing on fabrics (3,0,6)</p>				
7	<p>A/ Content and pedagogical methods in class: (3) Content: 1.5. Quality Management of Printing Products + Quality control department + Technical standards and error regulations + Process of product quality inspection + How to remedy and handling of defective products</p> <p>Pedagogical methods: + Presentation of lecture + Group discussion</p>	<p>CLO1 CLO2 CLO6 CLO7</p>	<p>2 3 2 3</p>	<p>Lecture; PPT; illustrating images</p>	<p>Exercise</p>
	<p>Task#6. Find errors printing samples and suggest solutions</p>	<p>CLO1 CLO2 CLO6 CLO7</p>	<p>2 3 2 3</p>		
	<p>Chapter 1: Embroidery technology and decorative applique on clothing (3,0,6)</p>				
8,9	<p>A/ Content and pedagogical methods in class: (3) Content: 1.1 OVERVIEW OF EMBROIDERY ON COSTUME + Introduction about embroidery technology on clothing + History and development of embroidery techniques on fabric + Classify embroidery techniques on clothes (hand embroidery, machine embroidery, computerized embroidery) + Embroidery, handmade applique + Embroidery machines + Introduction to computerize embroidery</p> <p>Pedagogical methods: + Presentation of lecture + Group discussion</p>	<p>CLO1 CLO2 CLO6 CLO7</p>	<p>2 3 2 3</p>	<p>Lecture; PPT; illustrating images</p>	<p>Exercise</p>
	<p>Task#7. Collect hand embroidery and machine embroidery products, Compare similarities and differences between them</p>	<p>CLO1 CLO2 CLO6 CLO7</p>	<p>2 3 2 3</p>		
10	<p>Chapter 1: Embroidery technology and decorative applique on clothing (3,0,6)</p>				

A/ Content and pedagogical methods in class: (3) Content: 1.2. Computerized embroidery technology + Prepare for production: raw materials, check designs on Tajima software, machinery and equipment + Production process 1/ Prepare frames and needles 2/ Set of embroidery patterns 3/ Trial embroidery 4/ Massive embroidery + Assessing the quality of embroidery products and decorative appliques Pedagogical methods: + Presentation of lecture + Group discussion	CLO1	2	Lecture; PPT; illustrating images	Exercise
	CLO2	3		
CLO6	2			
CLO7	3			
Task#8. Find errors printing samples and suggest solutions	CLO1	2		
	CLO2	3		
	CLO6	2		
	CLO7	3		

11. Learning Resources

- Textbooks:

1. Textbook of Embroidery Computerized. Vu Minh Hanh. HCMC National University Press, 2015.

- References:

2. TAJIMA DG/ML by Pulse, 2009.

12. Student Assessment

- Grading scale: **10**

- Assessment plan:

Type	Content	Timeline	CLOs	Scale	Evaluation method	Evaluation tool	Rate (%)
Assay							40
Task#1	Find 3 types of printing technology products, identify and classify them	Week 1	CLO 1,2,3	3	Group submission	Rubric	5
Task#2	Collect silk screen printing products, and analyze their characteristics	Week 3	CLO 1,2,3,4,7	3	Group submission	Rubric	5
Task #3	Find fashion effects silk screen prints products and analyze their characteristics	Week 4	CLO 1,2,3,4,7	3	Group submission	Rubric	5
Task #4	Collect heat transfer products, and analyze their characteristics	Week 5	CLO 1,2,3,4,7	3	Group submission	Rubric	5
Task #5	Collect digital printing products and analyze their characteristics	Week 6	CLO 1,2,3,4,7	3	Group submission	Rubric	5
Task	Find errors printing	Week 7	CLO	3	Group	Rubric	5

#6	samples and suggest solutions		1,2,3,4,7		submission		
Task #7	Collect hand embroidery and machine embroidery products , Compare similarities and differences between them	Week 9	CLO 1,2,3,4,7	3	Group submission	Rubric	5
Task #8	Find embroidered error samples and propose solutions	Week 10	CLO 1,2,3,4,7	3	Group submission	Rubric	5
Final exam							60
	Content covers all important course learning outcome Time to work 60 minutes.	Week 10	CLO 1,2,3,4,7	3	Self-examination	Answer	

Course codes	Forms of examination								
	BT #1	BT #2	BT # 3	BT # 4	BT # 5	BT #6	BT # 7	BT # 8	Final essay
CLO1	X	X	X	X	X	X	X	X	X
CLO2	X	X	X	X	X	X	X	X	X
CLO3	X	X	X	X	X	X	X	X	X
CLO4		X	X	X	X	X	X	X	X
CLO7		X	X	X	X	X	X	X	X

13. **Date of first approval:** June 15, 2018

14. **Approved by**
Dean



Vu Minh Hanh, M.Ed

Head of Department



Nguyen Ngoc Chau, PhD

Compiler



Tran Thi Cam Tu, M.Ed

15. **Date and Up-to-date content**

	Instructor:
	Head of Department

