



Project Title: traditional craft Heritage trAining, design and marketing in jorDan and Syria

# **Course Outline**

# **Module 6 – Weaving Technology**

Authors	Training and Technical Group (TTG)
	Scientific and Supervising Committee (SC)
WP Number	WP5 / DEVELOPMENT
	Make traditional crafts skills competency development an
	integrated part in Teaching
WP Leader	UNIFI
<b>Course Offered by</b>	ABU, MU
<b>Total number of pages</b>	5

## **Project Coordinator**

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	WEAVING	G TECHNOLOGY,			
	COUR	SE SYLLABUS			
Course Code	Course Title	WEAVING TECHNOLOGY		Cr.hr. ECTS	3 6
Class Room	Time				
	Semester				
Instructor(s)		Email:	Phone:	•	
Office Hours	As assigned in instructors schedules on the system & in front of their offices doors				

## COURSE DESCRIPTION: (ACCORDING TO THE CURRICULUM):

This course introduces fourth-year students from the Textile Engineering Department during the first and second semesters, the general principles of textile technology and the basic mechanics of the loom, in addition to the operational parameters for producing different samples of fabrics with traditional and modern designs.

#### **COURSE OBJECTIVE:**

The objectives of this course are to help students:

- 1. Introduce students to the fundamental principles of weaving, including warp and weft, fabric construction, and the interaction between fibers and yarns.
- 2. Familiarize students with various types of looms, weaving machines, and equipment used in modern textile production
- 3. Explore different weave structures, such as plain weave, twill, satin, and complex structures like dobby and jacquard weaves. Students should understand the characteristics, properties, and applications of each weave type
- 4. Enable students to create fabric designs and patterns using various weaving techniques, including drafting, threading, and treadling.
- 5. Offer practical hands-on experience with weaving equipment and techniques through laboratory sessions, workshops, and industry internships, allowing students to apply theoretical knowledge in a practical setting





#### STUDENT PERFORMANCE CRITERIA:

## **Based on HANDS Learning Outcomes:**

- LO1: Demonstrate an understanding of the historical significance and cultural heritage associated with traditional crafts.
- LO3: Apply traditional craft skills through hands-on training sessions or workshops, demonstrating proficiency in selected techniques.
- LO4: Develop creative solutions by integrating traditional craft elements into contemporary design projects.
- LO6: Identify market trends and consumer preferences related to traditional crafts, including niche markets and potential for commercialization..
- LO16:. Collaborate with artisans, practitioners, and communities involved in traditional crafts. This can foster mutual learning, cultural exchange, and the preservation of traditional craft practices.





## **COURSE CONTENT:**

Week#	Topic	Type	Grading
W1	Introduction		
WO	Textile weaving	1	
W2	Flax, silk fibers and fabrics		
	Introduction to handlooms	7	
W3	A) Frame Loom		
W 3	B) Rigid Heddle Loom		
	C) Inkle Loom		
W4	Embroidery / the art of decorating fabric		
W5	Tools of handcrafts of weaving		
W6	Tapestry Loom		
WO	vertical loom and horizontal loom		
W7	Project 1:	Project 1	Total 20%
<b>VV</b> /	utilization of tools and producing the fabrics		
	Project 2:	Project 2	Total 20%
W8	developing the design of the traditional fabric like Brocarde and		
	Aghban		
W9	Traditional Syrian Fabrics		
W10	Types of natural fibers and their utilizations		
W 10	Cotton, Silk, Linen, Wood, Leather, Tarp, and Jute,		
W11	Introducing the term of marketing in traditional fabrics field	Project 3	Total 20%
W12	Project 3:		
	Design and production of fabrics using Looms		
W13	Practice on Looms		
W14	Practice on Looms		
W15	Final submission for Projects and discussion		
WIJ	Critical seminars		
* For each p	project: the specific schedule is within the project description.		





#### **GRADING:**

• Grading will be based on class work and participation, and projects, assignments and quizzes. 60% of your total grade is the accumulation of grades earned on projects divided by two main projects, in addition to the final project (40%) as follow:

No.	Туре	Start Week	Submit. Week	Weight
1	Project # 1:	7	15	20%
2	Project # 2:	8	15	20%
3	Project # 3:	12	15	20%
			TOTAL	60%
3	Final Exam, class work and Assignments			40%
			TOTAL	100%

- All lectures and project demonstrations take place at the beginning of the class time and will not be repeated. When you are absent or late it is your responsibility to get the missed work from your classmate.
- **Portfolio and Documentation of Design Work:** Students are required to document all studio work in Digital copies of design work.

#### **REFERENCES:**

- References:
- Savvas Vassiliadis, 2011, Advances In Modern Woven Fabrics Technology, InTech Janeza Trdine 9, 51000 Rijeka, Croatia,
- A.F.Barker, E. Midgley, 2007, Analysis of Woven Fabrics, First Indian Edition
- (2008) منشورات جامعة البعث- كلية الهندسة الكيميانية والبترولية طاهر قدار
- **Handouts:** To be introduced and handed to the students as needed.

## ATTENDANCE POLICY:

#### Attendance policy:

- Attendance will be checked at each class and the university regulations will be strictly followed for student exceeding the maximum rate of absences.
- Late attendance will be considered as an absence.
- Late submissions will not be considered.
- Submissions without follow up with the direct instructor will not be evaluated.

## **CHEATING POLICY:**

Cheating is not tolerated and against the university rules. Cheating will result in failing the course and reporting the incident to the dean of the college of architecture and design.





# List of Suggested Projects in Accordance with HANDS LOs

Week	Project / Task	points
2-3	Project 1: Handcraft weaving	
	Using equipment at HANDS workshops	
	Description of Project 1: traditional craft applications	
	Lecture 1: Frame Loom	
	Project follow up	
	☐ Design preparations	
	□ practice on Composition, Sequence of Experiences, production of	
	the fabric object	
2-3	Duoicat 2. Handaraft weaving	
2-3	Project 2: Handcraft weaving	
	Using equipment at HANDS workshops	
	Description of Project 1: traditional craft applications	
	Lecture 1: Tapestry Loom	
	Project follow up	
	☐ Design preparations	
	☐ practice on Composition, Sequence of Experiences, production of	
	the fabric object	
2-3	Project 3: Fabric partition	
	Using equipment at HANDS workshops	
	Description of Project 3: traditional craft applications. Design of a	
	partition / Screen using Loom techniques.	
	Project follow up	
	☐ Design preparations	
	practice on Composition, Sequence of Experiences, production of	
	the fabric object	
2-3	Project 4: Fabric Design	
_ 0	Using equipment at HANDS workshops	
	Description of Project 4: traditional craft applications fabric design	
	Lecture 1: Fabric design parameters	
	Project follow up	
	☐ Analyzing case studies,	
	☐ Build 2D model, Composition, Sequence of Experiences,	
	construction of 3D object	