Co-funded by the Erasmus+ Programme of the European Union

ERASMUS+ PROGRAMME Project Number: 610238-EPP-1-2019-1-JOEPPKA2-CBHE-JP

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

Course Outline

Module 4 – Practical Training

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**
Course Offered by	**ZUJ, UJ, HU, JUST, TU, ABU, MU**
Total number of pages	**5**

Project Coordinator

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Manara University
Al-Baath University
World University Service of the Mediterranean
Blue Room Innovation
CESIE
Università degli Studi di Firenze
Università degli Studi Guglielmo Marconi
Technische Hochschule Ostwestfalen-Lippe

PRACTICAL TRAINING, COURSE SYLLABUS

Course Code		**Course Title**	**PRACTICAL TRAINING**	**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):

Practical training course involves hands-on experience in various aspects of architectural design, drafting, and construction.

Architectural Design Studios: These are the core of the practical training. Students work on design projects under the guidance of experienced architects. They learn to apply design principles, develop conceptual ideas, create architectural drawings, and use design software such as AutoCAD, Revit, or Sketch Up, and BIM software.

Site Visits: Students visit construction sites to observe the practical application of architectural principles, construction techniques, and materials. This provides valuable insight into how designs translate into real-world structures and helps students understand construction processes.

Model Making: Students often create physical models of their designs to visualize spatial relationships, test concepts, and communicate ideas effectively. This involves using various materials such as cardboard, wood, foam board, or 3D printing.

Technical Drawing and Construction Documentation: Practical training includes learning technical drawing skills such as plan, section, elevation, and detail drawings. Students learn to communicate their design ideas accurately and precisely through these drawings, which are essential for construction documentation.

Craft Techniques: Practical training involves learning traditional craft techniques such as joinery, carving, casting, weaving, and metalworking and digital fabrication technologies such as CNC milling, laser cutting, and 3D printing. Students acquire skills in manipulating materials with precision and craftsmanship, understanding how these techniques can be integrated into contemporary architectural practice.

Overall, practical training in an architectural course is designed to provide students with a well-rounded understanding of architectural design, construction processes, and professional practice, preparing them for careers in architecture or related fields.

COURSE OBJECTIVE:

The objectives of this course are to help students:

1. Develop Design Skills by providing opportunities to explore various design methodologies
2. Master Technical Proficiency: Students are trained to become proficient in architectural drafting, modeling, and visualization tools
3. Understand Building Systems: Practical training involves learning about building systems integrated with architectural design and learn to collaborate with engineers to ensure functional, efficient, and sustainable building designs.
4. Gain Hands-on Experience: Through site visits, construction site internships, and collaborative projects, practical training provides students with hands-on experience in real-world architectural practice.
5. Encourage Critical Thinking: Students are encouraged to think critically and analytically about architectural design problems, considering social, cultural, economic, and environmental factors that influence design decisions.
6. Foster Collaboration: Practical training promotes collaboration and teamwork, preparing students to work effectively with colleagues, clients, consultants, and stakeholders in multidisciplinary design teams.
7. Master Traditional Craft Techniques: Practical training aims to impart proficiency in traditional craft techniques such as woodworking, stonemasonry, metalworking, glassblowing, and other artisanal skills. Students learn the intricacies of each craft, mastering techniques that can be applied to architectural design.
8. Integrate Craftsmanship with Design: Practical training emphasizes the integration of craftsmanship with architectural design. Students learn to incorporate traditional craft techniques into contemporary design projects, exploring how handmade elements can enhance spatial quality, express cultural identity, and create unique architectural experiences.

STUDENT PERFORMANCE CRITERIA:

Based on NAAB 2014 Student Performance Criteria for Accreditation:

D.3 Business Practices: Understanding of the basic principles of a firm's business practices, including financial management and business planning, marketing, organization, and entrepreneurship

D.5 Professional Conduct: Understanding of the ethical issues involved in the exercise of professional judgment in architectural design and practice and understanding the role of local rules of conduct and ethical practice..

Based on HANDS Learning Outcomes:

LO3: Apply traditional craft skills through hands-on training sessions or workshops, demonstrating proficiency in selected techniques.

LO8: Collaborate effectively with artisans, communities, and stakeholders to support the preservation and revitalization of traditional craft industries.

LO17: Equipped with the knowledge and skills necessary for pursuing careers in traditional craft design, including understanding the market, entrepreneurship, and opportunities for further education and specialization.

LO21: Optimizing manufacturing processes for efficiency and productivity. This includes streamlining workflows, minimizing waste, and maximizing output without compromising quality

COURSE CONTENT:

Week #	Topic	Type	Grading
W1- W8 OR W1 – W12	hands-on experience in various aspects of architectural design, drafting, and construction. 2-3 Weeks: Practical training emphasizes the integration of craftsmanship with architectural design.		

GRADING:

- Grading will be based on training committee portfolio assessment:

No.	Type	Start Week	Submit. Week	Weight
1	Architectural Design			25%
2	Building Construction			25%
3	Site and Field experience			25%
4	Archiectural and craft technology			25%
			TOTAL	**100%**

- **Portfolio and Documentation of training portfolio Work:** Students are required to document all training work in Digital copies.

ATTENDANCE POLICY:

Attendance policy:

- Attendance will be checked according to the university regulations will be strictly followed for student exceeding the maximum rate of absences.
- Attendance evaluation is based on two supervisor site visits to the training bodies.

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: Design:** **Geometry, biomorphic, calligraphy motifs** Description of Project 1: traditional craft pattern applications Digital Fabrication □ Preparing full technical detailed drawings for the proposed design □ Build 2D/3D Designs	
2-3	**Project 2: Design:** **Stained glass applications** **Using equipment at HANDS workshops** Description of Project 2: traditional craft applications Digital Fabrication □ Preparing full technical detailed drawings for the proposed design □ Build 2D/3D Designs	
2-3	**Project 3: Design:** **Ceramics** **Using equipment at HANDS workshops** Description of Project 3: traditional craft applications Digital Fabrication □ Preparing full technical detailed drawings for the proposed design □ Build 2D/3D Designs	
2-3	**Project 4: Design and build:** **Furniture** **Using equipment at HANDS workshops** Description of Project 4: wood and metal applications in craft work Digital Fabrication □ Preparing full technical detailed drawings for the proposed design □ Build 2D/3D Designs	
2-4	**Vocational courses**	