

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 1 – Architecture Design 5

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, JUST
Total number of pages	4

Project Coordinator

Dr.Loai Dabbour
Al-Zaytoonah University of Jordan (ZUJ)
Airport Street
Tel: +062 6 4291511 Ext. 112 / Fax: +962 6 4291432
Email: HANDS@zuj.edu.jo
Project website: <https://www.zuj.edu.jo/HA>



Al-Zaytoonah
University of
Jordan



The University of Jordan



Jordan University of
Science and
Technology



The Hashemite University



Karmeh Design Studio



Tishreen
University



جامعة
المنارة
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

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ARCHITECTURE DESIGN 5, COURSE SYLLABUS					
Course Code		Course Title	ARCHITECTURE DESIGN 5	Cr.hr. ECTS	5 10
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):

A project-based course; it emphasizes the design of complex group of buildings (mixed used, residential and commercial buildings) within an urban context of a related urban fabric such as locations in central urban areas or in other locations where an urban design practice is needed prior to the design of individual buildings. The course employs a professional approach where the brief and requirements of the project are formulated by the students as a result of existing architectural and social analysis of the study area.

Also the main principles and urban arrangement behind the complex spatial design and context, in addition of formulate critical arguments by exercising different value approaches in contemporary urban design, as well as future tendencies in the field.

It also imphezize the consideration of the environmental impact of using traditional craft items (i.e screens, mashrabias) to explore sustainable approaches to materials sourcing, production processes, and waste management within the context of traditional craft design. The aim is todevelop critical thinking skills to analyze and evaluate the use of traditional / contemporary craft objects in terms of their cultural, aesthetic, functional, and technical aspects.

COURSE OBJECTIVE:

The objectives of this course cover the following points:

1. Capacity to define strategies for problem solving, conceptual development and poetic expression at all levels of the design process of a building complex
2. Ability to apply basic organizational, spatial, structural, and constructional principles to the conception and development of architecture and urban design projects.
3. Capacity to develop a design that responds to urban context, topography, and historical fabric.
4. Focus on using traditional / contemporay craft items (i.e screens, mashrabias) to explore sustainable approaches.

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STUDENT PERFORMANCE CRITERIA:

Based on NAAB 2014 Student Performance Criteria for Accreditation:

- A.6 Use of Precedents: Ability to examine and comprehend the fundamental principles present in relevant precedents and to make informed choices about the incorporation of such principles into architecture and urban design projects.
- B.2 Site Design: Ability to respond to site characteristics, including urban context and developmental patterning, historical fabric, soil, topography, ecology, climate, and building orientation, in the development of a project design.

Based on HANDS Learning Outcomes:

- LO5: Critically assess the role of technology in preserving, promoting, and innovating traditional craft practices.
- LO13: Consider the environmental impact of traditional craft practices and explore sustainable approaches to materials sourcing, production processes, and waste management within the context of traditional craft design.
- LO14: Develop critical thinking skills to analyze and evaluate traditional craft objects in terms of their cultural, aesthetic, functional, and technical aspects. Learn problem-solving skills to address challenges encountered in the design and production process.

COURSE CONTENT:

Week #	Topic	Type	Grading
W1	Overview of the Course / General introduction Project 1: 3 weeks' project to incorporate the design of a project utilizing traditional / contemporary craft applications Phase 1: Data collection and analysis stage.	Project 1	Total 30%
W2	Design approach (conceptual phase) Design development		
W3	Project 1 Final Submission		
W4	Project 2: Mixed used, residential and commercial complex	Project 2	Total 70%
W5	Phase 1: Data collection and analysis stage.		
W6	Urban context study (Site analysis and case studies)		
W7	Brief and requirements of the project		
W8	Design approach (conceptual phase)		
W9	Phase 2: Preliminary / Concept development		
W10	Phase 3: Development / Architectural Drawing; Plans And Sections		
W11	Architectural Drawing; 3D studies		
W12	Design development		
W13	Phase 4: Pre-final submission		
W14	Design development		
W15	Design development		
* For each project: the specific schedule is within the project description.			

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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.	Type	Start Week	Submit. Week	Weight
1	Project # 1:	1	3	30%
2	Project # 2:	3	15	70%
TOTAL				60%

- 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:**
 - Allen, Edward; Fundamentals of Building Construction: Materials and Methods; John Wiley; New York; 1985.
 - R. Barry. "The construction of Buildings". Volume 2: Windows, Doors, Fires, Stairs, Finishes". English Language Book Society/Collins 1986
 - Ching, Francis. Building Construction Illustrated. John Wiley; New York; 1991.
 - Sustainable Architecture: Hi-Tech Housing Arian Mostaedi.
 - Green building Bible, Richard Nicholls.
 - Spaces of Global Cultures: Architecture, Urbanism, Identity (Architext). (Paperback) by Anthony King.
 - Max Dudler, Construction Technology for High Rise Buildings: Handbook, CreateSpace Independent Publishing Platform (September 5, 2014).
 - Jurek Tolloczko, Viswanath, Multi-purpose High-rise Towers and Tall Buildings, CRC Press, Florida, USA, 1998.
 - 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.

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List of Suggested Projects in Accordance with HANDS LOs

Week	Project / Task	points
3-4	<p>Project 1: Development of an existing traditional building Using equipment at HANDS workshops</p> <p>Description of Project 1:</p> <ul style="list-style-type: none"> - Genuine Architectural Design with imaginary future approach. - Considering people with special abilities. - Considering Identity and Climate. - Considering the design of traditional / contemporary craft applications <p>Project follow up</p> <p><input type="checkbox"/> Analyzing the suggested elements,</p>	
3	<p>Project 2: exterior / interior space partition design with traditional / contemporary craft item</p> <p><input type="checkbox"/> Description of Project 2: partition (interior design element).</p> <p>Requirements: 2 case studies and 1 suggested design Scale elevation 1:10 2 details (connected with wall & with ceiling)</p>	
3	<p>Project (3): Exterior screens / shading – window shields / environmental sustainable feature</p> <p>Lecture:</p> <ul style="list-style-type: none"> - Introduced to craft design and decoration with a focus on design parameters, the scope of services, and the latest trends of screen design. - study the effects of light, color, and texture in the design. - Various types architecture traditional elements and how to implement them in contemporary design. 	
2-3	<p>Project 04: Mashrabia design</p> <p>Lecture:</p> <ul style="list-style-type: none"> - Introduction to traditional Mashrabia focus on design parameters, the scope of services, and the latest trends in screen designs - Study the effects of light, color, and environmental aspects - Sustainable Handcrafts in Mashrabia / screen design. <p>apply a unique and adaptable design process to a variety of contexts and problems such as form, materials research, fabrication and use.</p>	