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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

## HANDS Courses RoadMap

<b>Authors</b>	<b>Training and Technical Group (TTG) Scientific and Supervising Committee (SC)</b>
<b>WP Number</b>	<b>WP5 / DEVELOPMENT Make traditional crafts skills competency development an integrated part in Teaching</b>
<b>WP Leader</b>	<b>UNIFI</b>
<b>Total number of pages</b>	<b>30</b>

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Al-Zaytoonah  
University of  
Jordan



The University of Jordan



Jordan University of  
Science and  
Technology



The Hashemite University



Karmeh Design Studio



Tishreen  
University



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

## 2. MODULE / COURSES MATRIX

Module No.	Univ.	University courses	Course level	CH	ECTS	Updated / New	Vocational courses
Module 1 - Design	ZUJ	Basic Design 2	1 <sup>st</sup> year	3	6	Updated	Geometry Craft (Wood inlay) Fashion
		Proportions and geometry in architecture	4 <sup>th</sup> year	3	6	New course	
	UJ	Basic Design 2	1 <sup>st</sup> year	3	6	Updated	
	HU	Basic Design 2	1 <sup>st</sup> year	3	6	Updated	
	JUST	Basic Design 2	1 <sup>st</sup> Year	3	6	Updated	
	MU	Architectural Design Studio 1	1 <sup>st</sup> year	5	10	Updated	
	ABU	Architecture Design 1	1 <sup>st</sup> year	3	6	Updated	
	TU	Workshop and model	2 <sup>nd</sup> year	3	6	Updated	
		Design and Implementation of Traditional Architecture Elements	3 <sup>rd</sup> year	3	6	New course	
	ZUJ	Architecture design 5	4 <sup>th</sup> year	5	10	Updated	
	JUST	Architectural Design (6)	4 <sup>th</sup> Year	5	10	Updated	
	ZUJ	Interior/furniture Design	4 <sup>th</sup> year	3	6	New course	
	TU	Interior Design	3 <sup>rd</sup> year	3	6	Updated	
	ABU	Interior architecture	4 <sup>th</sup> year	3	6	Updated	
	MU	Interior Architecture	3 <sup>rd</sup> year	3	6	Updated	
		Product & Furniture Design	3 <sup>rd</sup> year	3	5	New course	
	ZUJ	Fashion and jewellery Design	2 <sup>nd</sup> year	3	6	New course	
	ZUJ	Traditional fashion design	3 <sup>rd</sup> year	3	6	New course	
Module 2 Working drawings	ZUJ	Working drawings 1	3 <sup>rd</sup> year	3	6	Updated	Craft (Wood inlay)
	HU	Finishing	3 <sup>rd</sup> Year	3	6	Updated	
	JUST	Building Construction I	2 <sup>nd</sup> Year	3	6	Updated	
Module 3 Conservation	ZUJ	Conservation of architectural heritage	4 <sup>th</sup> year	6	12	Updated	Digital documentation
	UJ	Local Architecture	3 <sup>rd</sup> Year	3	6	Updated	
	HU	Conservation of Architectural Heritage	4 <sup>th</sup> year	3	6	Updated	
	JUST	Local Architecture And Heritage Conservation	4 <sup>th</sup> Year	3	6	Updated	
	MU	Conservation of Archaeological & Architectural Heritage	4 <sup>th</sup> year	2	4	Updated	
	ABU	Rehabilitation of historic buildings	3 <sup>nd</sup> year	3	6	New course	
Module 4 Training	TU	Practical training	4 <sup>th</sup> year	3	6	Updated	Geometry Craft (Wood inlay + Ceramics)
	ZUJ	Practical training	4 <sup>th</sup> year	6	12	Updated	
	UJ	Practical training	4 <sup>th</sup> year	0	12	Updated	
	HU	Practical training	4 <sup>th</sup> year	0	12	Updated	
	JUST	Architectural training	4 <sup>th</sup> Year	3	6	Updated	
	ABU	Compositions and models	2 <sup>nd</sup> year	3	6	Updated	
	MU	Architectural Patterns & Models	2 <sup>nd</sup> year	2	4	Updated	

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<b>Module 5</b> Materials and manufacturing process	<b>ZUJ</b>	Manufacturing Processes	3 <sup>rd</sup> year	3	6	Updated	Digital Design Manufacturing CNC
		Engineering Workshops	1 <sup>st</sup> year	3	6	Updated	
	<b>TU</b>	Material properties and tests and metal forming	3 <sup>rd</sup> year	3	6	Updated	
		Casting technology	5 <sup>th</sup> year	3	6	Updated	
	<b>ABU</b>	Materials tests Engineering	3 <sup>rd</sup> year	3	6	Updated	
<b>Module 6</b> Craft technology	<b>ZUJ</b>	Special topics in Architecture	5 <sup>th</sup> year	3	6	New course	Geometry  Crafts (Ceramics)
	<b>JUST</b>	Special topics in Architecture	5 <sup>th</sup> year	3	6	New course	
	<b>UJ</b>	Basic of Ceramics	1 <sup>st</sup> year	3	6	Updated	
		Fundamental of printmaking	1 <sup>st</sup> year	3	6	Updated	
	<b>HU</b>	Handicrafts	2 <sup>nd</sup> year	3	6	Updated	
		Ceramics 1	3 <sup>rd</sup> year	3	6	Updated	
	<b>TU</b>	Basic of Ceramics	2 <sup>nd</sup> year	3	6	Updated	
	<b>ABU</b>	Weaving technology	4 <sup>th</sup> year	3	6	Updated	
	<b>MU</b>	Matter Technology	1 <sup>st</sup> year	2	4	Updated	
<b>Module 7</b> Marketing	Hand crafts Startups E-Marketing or Digital Marketing Career Planning and Career Management						

## FOCUS GROUPS / COURSE MODULES

### Focus group 1 / Module 1 - Design

Courses	CH	ECTS
Basic Design 2	3	6
Proportions and geometry in architecture	3	6
Architecture design 5 / 6	5	10
Interior Architecture / furniture Design	3	6
Fashion and jewellery Design	3	6

University	Role
MU	Leader
HU	Co-Leader
ZUJ	Partner
ABU	Partner
UNIFI	Coordinator
<b>Advisory Board</b> KDS Richard Dwerryhouse	Coordinator

### Focus group 2 / Module 2 – Working Drawings

Courses	CH	ECTS
Working drawings 1	3	6

University	Role
JUST	Leader
HU	Co-Leader
ZUJ	Partner
<b>Advisory Board</b> KDS	Coordinator

### Focus group 3 / Model 3 - Conservation

Courses	CH	ECTS
Conservation of architectural heritage	3	6

University	Role
<b>UJ</b>	Leader
<b>ABU</b>	Co-Leader
<b>ZUJ</b>	Partner
<b>JUST</b>	Partner
<b>UNIFI / THOWL</b>	Coordinator
<b>Advisory Board</b> Arch. Ayman Zuaite	Coordinator

### Focus group 4 / Module 4 - Training

Courses	CH	ECTS
Practical training	6	12

University	Role
<b>TU</b>	Leader
<b>JU</b>	Co-Leader
<b>JUST</b>	Partner
<b>MU</b>	
<b>Advisory Board</b> Arch. Husam AlKiswani Tartous Crfts Association	Coordinator

### Focus group 5 / Module 5 - Materials and Manufacturing Process

Courses	CH	ECTS
Manufacturing Processes	3	6
Engineering Workshops	3	6

University	Role
<b>ABU</b>	Leader
<b>TU</b>	Co-Leader
<b>ZUJ</b>	Partner
<b>THOWL</b>	Coordinator
<b>Advisory Board Member</b> Arch. Zaid Wahbeh Latakia Crafts Association ADM	Coordinator

## Focus group 6 / Module 6 – Craft Technology

Courses	CH	ECTS
Special topics in Architecture	3	6
Basic of Ceramics	3	6
Fundamental of printmaking	3	6
Handicrafts	3	6
Weaving technology	3	6

University	Role
HU	Leader
ABU	Co-Leader
TU	Partner
ZUJ	Partner
THOWL	Coordinator
<b>Advisory Board</b> Tartous Crafts Association Arch. Ayman Zuaite	Coordinator

## Focus group 7 / Module 7 – Marketing

Vocational Courses / Workshops
Hand crafts Startups
E-Marketing or Digital Marketing
Career Planning and Career Management

University	Role
TU	Leader
CESIE	Co-Leader
Blueroom	Partner
HU	Partner
USGM	Coordinator
<b>Advisory Board</b> Ibrahim Batchalder	Coordinator

## Vocational Workshop Modules

Vocational Courses
Geometry
Craft (Wood Inlay)
Fashion
Digital Design and Manufacturing / CNC
Craft (Ceramics)

University	Role
<b>TU</b>	Leader
<b>ZUJ</b>	Co-Leader
<b>ABU</b>	Partner
<b>JU</b>	Partner
<b>UNIFI</b>	Coordinator
<b>Advisory Board</b> Tartous Crafts Association Latakia Crafts Association KDS Richard Dwerryhouse Turquoise Mountain Foundation	Coordinator

### 3. HANDS LEARNING OUTCOMES

- LO1: Demonstrate an understanding of the historical significance and cultural heritage associated with traditional crafts.
- LO2: Analyze the design principles and techniques specific to traditional crafts from different cultures and regions.
- 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.
- LO5: Critically assess the role of technology in preserving, promoting, and innovating traditional craft practices.
- LO6: Identify market trends and consumer preferences related to traditional crafts, including niche markets and potential for commercialization..
- LO7: Create comprehensive marketing strategies tailored to promote traditional crafts in local, national, or international markets.
- LO8: Collaborate effectively with artisans, communities, and stakeholders to support the preservation and revitalization of traditional craft industries.
- LO9: Considerations in the design, production, and marketing of traditional crafts, considering issues such as cultural appropriation and fair trade practices.
- LO10: Develop technical skills in traditional craft techniques such as weaving, pottery, woodworking, metalworking, etc. This includes proficiency in handling tools and materials specific to each craft.
- LO11: Understanding the fundamental design principles such as balance, proportion, symmetry, rhythm, and harmony as they apply to traditional craft design. This includes understanding how these principles manifest in traditional craft objects.
- LO12: Explore creative expression and innovation within traditional craft design. This involve experimentation with materials, techniques, and forms to create contemporary interpretations of traditional crafts.
- 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.
- LO15: Ability to effectively communicate the design ideas, concepts, and processes both visually and verbally. This includes skills in sketching, prototyping, documentation, and presentation techniques relevant to traditional craft design.
- 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.

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- 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.
- LO18: Knowledge of the materials traditionally used in crafts, including their properties, sourcing, preparation, and appropriate usage. This involve understanding natural materials like clay, wood, fibers, or metals, as well as any modern substitutes or adaptations.
- LO19: Apply traditional design principles to the manufacturing processes, ensuring that design work reflects the aesthetic and functional qualities inherent in traditional craft objects. This includes considerations of form, function, ornamentation, and cultural symbolism.
- LO20: Understand the importance of conserving and preserving traditional craft techniques and materials for future generations. This may involve learning about methods for documentation, restoration, and maintenance of traditional craft objects and practices.
- LO21: Optimizing manufacturing processes for efficiency and productivity. This includes streamlining workflows, minimizing waste, and maximizing output without compromising quality

#### 4. HANDS LEARNING OUTCOMES / COURSES MATRIX

Student Performance Metrix ( For each course (Minimum of 2 LOs/ Maximum of 6 Los))

LOs	LO1	LO2	LO3	LO4	LO5	LO6	LO7	LO8	LO9	LO10	LO11	LO12	LO13	LO14	LO15	LO16	LO17	LO18	LO19	LO20	LO21
Courses																					
Module 1																					
Basic Design 2																					
Proportions and geometry in architecture																					
Architecture design 5																					
Interior Architecture																					
Fashion and jewellery Design																					
Module 2																					
Working drawings 1																					
Module 3																					
Conservation of architectural heritage																					
Module 4																					
Practical training																					
Module 5																					
Manufacturing Processes																					
Engineering Workshops																					
Module 6																					
Basic of Ceramics																					
Handicrafts																					



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Weaving technology																							
Special Topics in Architecture																							



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LOs	LO1	LO2	LO3	LO4	LO5	LO6	LO7	LO8	LO9	LO10	LO11	LO12	LO13	LO14	LO15	LO16	LO17	LO18	LO19	LO20	LO21
Courses																					
Module 7																					
Hand crafts Startups																					
E-Marketing or Digital Marketing																					
Career Planning and Career Management																					
Vocational Workshop Modules																					
Geometry																					
Craft (Wood Inlay)																					
Fashion																					
Digital Design and Manufacturing / CNC																					
Craft (Ceramics)																					

## 5. HANDS Courses Content

### Module 1 – Architecture Design 5

Week #	Topic
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.
W2	Design approach ( conceptual phase) Design development
W3	Project 1 Final Submission
W4	Project 2: Mixed used, residential and commercial complex
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.

### List of Suggested Projects in Accordance with HANDS LOs

Week	Project / Task
3-4	<p><b>Project 1: Development of an existing traditional building</b>  <b>Using equipment at HANDS workshops</b></p> <p>Description of Project 1:</p> <ul style="list-style-type: none"> <li>- Genuine Architectural Design with imaginary future approach.</li> <li>- Considering people with special abilities.</li> <li>- Considering Identity and Climate.</li> <li>- Considering the design of traditional / contemporary craft applications</li> </ul> <p><b>Project follow up</b></p> <p><input type="checkbox"/> Analyzing the suggested elements,</p>

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3	<b>Project 2: exterior / interior space partition design with traditional / contemporary craft item</b> <input type="checkbox"/> Description of Project 2: partition (interior design element). Requirements: 2 case studies and 1 suggested design Scale elevation 1:10 2 details (connected with wall & with ceiling)
3	<b>Project (3): Exterior screens / shading – window shields / environmental sustainable feature</b> <b>Lecture:</b> <ul style="list-style-type: none"> <li>- Introduced to craft design and decoration with a focus on design parameters, the scope of services, and the latest trends of screen design.</li> <li>- study the effects of light, color, and texture in the design.</li> <li>- Various types architecture traditional elements and how to implement them in contemporary design.</li> </ul>
2-3	<b>Project 04: Mashrabiya design</b> <b>Lecture:</b> <ul style="list-style-type: none"> <li>- Introduction to traditional Mashrabiya focus on design parameters, the scope of services, and the latest trends in screen designs</li> <li>- Study the effects of light, color, and environmental aspects</li> <li>- Sustainable Handcrafts in Mashrabiya / screen design.</li> </ul> apply a unique and adaptable design process to a variety of contexts and problems such as form, materials research, fabrication and use.

## Module 1 – Basic Design

Week #	Topic
W1	Introduction of the course and warm-up project *
W2	Development of warm-up project
W3	Development of warm-up project
W4	pre-final submission of warm-up project
W5	final submission of warm-up project Starting with project # 2*
W6	Development for project # 2
W7	Development for project # 2
W8	Development for project # 2
W9	Development for project # 2
W10	Final submission of project # 2 Introduction of the final project *
W11	Development for final project
W12	Development for final project
W13	Development for final project
W14	Development for final project
W15	Final submission of the final project according to the dep. Schedule

\* For each project: the specific schedule is within the project description.

## List of Suggested Projects in Accordance with HANDS LOs

Week	Project / Task
2-3	<p><b>Project 1: Elements of Nature (Shell formations): Model + Poster Using CNC equipment at HANDS workshops</b></p> <p>Description of Project 1: Elements of Nature (Shell formations)</p> <p><b>Lecture 1:</b> Shell Structure</p> <p><b>Lecture 2:</b> Form &amp; Space</p> <p><b>Project follow up</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Analyzing the suggested elements,</li> <li><input type="checkbox"/> Use basic abstraction methods to applying the formative and structural aspects into their 3D stick model.</li> <li><input type="checkbox"/> Beside the model, the student must present A3 sheet showing an analysis of the natural element he worked on, in terms of form and formality</li> </ul>
2	<p><b>Project 2: Folded and Animated Planes (Grid + Model) Choosing the character of an artist, sculptor or jewelry maker, a craftsman</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Description of Project 2: Folded and Animated Planes</li> </ul>

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3	<p><b>Project (3): Craft Work choosing its detail from the second project</b></p> <p><b>Positive &amp;negative Cube</b></p> <p><b>Lecture 3:</b> Void and Solids (Positive &amp;negative)</p> <p><input type="checkbox"/> Description of Project (3): craft work / Positive &amp;negative Cube (Grid + Model)</p>
2-3	<p><b>Project 04: Art of Decoration and its Types</b></p> <p><b>Kiosk Design (Line, Plane, and Mass)</b></p> <p><b>Lecture 4:</b> Geometry</p> <p>Rules of decoration / Geometric Decorations</p> <p>Decoration in Handcrafts</p> <p>• <b>Description of Project 04: Kiosk Design (Line, Plane, and Mass)</b></p> <p><input type="checkbox"/> Model and Drawings</p>
4	<p><b>Project 5: Using Traditional Elements in Home Design</b></p> <p><input type="checkbox"/> <b>Description of the project: Functional Composition (studio design) and understanding nature of the project.</b></p> <p><b>Phase 1 follow up:</b> Case study discussion and feedback</p> <p><b>Phase 2 follow up:</b> concept Design</p> <p><b>Phase 3 follow up:</b> Design and development</p> <p>Functional Composition</p> <p>Architectural style composition</p> <p>Sequence of Experiences</p> <p>Design Elements</p> <p>2D/3D Designs</p>
3	<p><b>Project 6: 3D Craft composition to contain (indoor and outdoor) functions</b></p> <p>• <b>Description of the project:</b> to help students understand the notion of functional and spatial relationship bounded by form inspired by a traditional craft project analysis. The composition will be formed by applying design principles (repetition, rhythm, hierarchy, transformation, etc.) to enclose specific functions.</p> <p>Students will design 2D and 3D compositions to reflect functional, structural, and spatial relationship of a craft project restricted by simple site force (existing manmade or natural feature such as trees, river, walking lane, etc.)</p>

## Module 1 – Interior Design

Week #	Topic
W1	Introduction to Interior Design and Decoration
W2	Interior design fundamentals
W3	Elements and Principles of Design
W4	Functional and Decorative Use of Colour
W5	Lighting Effects on Colour
	Materials
W6	Furnishings
W7	Interior Planting
W8	Architectural Traditional elements
W9	Design prototyping and presentation skill
W10	Form, function and ornament
	Residential interior design project
W11	Commercial interior design project
W12	Service interior design project
W13	History of Traditional products & furniture
W14	Furniture design Fundamentals
W15	Final submission of the final project according to the dep. Schedule

\* For each project: the specific schedule is within the project description.

## List of Suggested Projects in Accordance with HANDS LOs

Week	Project / Task
2-3	<p><b>Project 1: Residential interior design project</b>  <b>Using equipment at HANDS workshops</b></p> <p>Description of Project 1:</p> <ul style="list-style-type: none"> <li>- learn the fundamentals of residential design techniques and philosophies are integrated seamlessly with the learning of digital representation.</li> <li>- study the effects of light, color, furniture and decorative objects in residential design.</li> <li>- study the effects of light, color, furniture and decorative objects in residential design.</li> </ul> <p><b>Lecture:</b></p> <ul style="list-style-type: none"> <li>- Residential interior design principles.</li> <li>- Different residential design styles.</li> <li>- Residential furniture and their dimensions.</li> <li>- Examples of a range of residential interior designing styles.</li> </ul> <p><b>Project follow up</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Analyzing the suggested elements,</li> </ul>

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2-3	<p><b>Project 2: interior space design with traditional / contemporary craft item</b></p> <p><input type="checkbox"/> <b>Description of Project 2:</b> Each student will design a single family residence in the following steps: Idea sketching. Beginning a floor plan and residential space planning. Drawing plans in CAD programs. Selecting furnishings and their materials. Arranging the various furnishing elements. Arranging lights and design the residence ceiling. Controlling lights and materials. Building a digital model. Using Photoshop to finalize the project. For the final presentation students will deliver the following components for the craft furniture items: Residence plans with furniture plan(s). Two crossed sections with furniture. C. Three-dimensional digital models of primary spaces. D. Sketches of preliminary design ideas. C. E. Written concept statement.</p>
3	<p><b>Project (3): Craft Work / furniture in Commercial interior design project</b></p> <p><b>Lecture:</b></p> <ul style="list-style-type: none"> <li>- Introduced to commercial design and decoration with a focus on design parameters, the scope of services, and the latest trends of commercial space.</li> <li>- study the effects of light, color, furniture and decorative objects in residential design.</li> <li>- study the effects of light, color, furniture and decorative objects in residential design.</li> </ul> <p><b>Students will design the interior of a small commercial space such as (café, art gallery or a boutique) in a traditional Islamic style and present it as a project.</b></p> <ul style="list-style-type: none"> <li>- Commercial interior design principles.</li> <li>- Different commercial design styles with the concentration on the traditional Islamic style.</li> <li>- Various types architecture traditional elements and how to implement them in contemporary design.</li> </ul> <p>Examples of commercials interiors designed in Islamic traditional style.</p>
2-3	<p><b>Project 04: Service interior design project</b></p> <p><b>Lecture:</b></p> <ul style="list-style-type: none"> <li>- Introduction to service spaces design and decoration with a focus on design parameters, the scope of services, and the latest trends and needs of service spaces.</li> <li>- Study the effects of light, color, furniture and decorative objects in service design sing decoration in Handcrafts.</li> <li>-</li> </ul> <p><b>• Description of Project 04:</b></p> <ul style="list-style-type: none"> <li>- Service interior design principles.</li> <li>- Different service spaces design styles.</li> <li>- Various types of service furniture and their dimensions.</li> </ul> <p>Examples of a range of service interior designing styles.</p>
4	<p><b>Project 5: Furniture design Fundamentals</b></p> <p><b>□ Description of the project:</b></p> <ul style="list-style-type: none"> <li>- to apply a unique and adaptable design process to a variety of contexts and problems such as form, materials research, fabrication and use.</li> <li>- to articulate an informed point of view related to the fundamental issues of the discipline of furniture design</li> </ul> <p>Furniture types and functions.</p>

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	<p>Elements of form, function and aesthetics in furniture. Furniture accessories types. Human factors, safety, durability, international and local architectural standards in the furniture industry</p>
2-3	<p><b>Project 6: Product and furniture design methods and processes</b></p> <p>• <b>Description of the project:</b></p> <ul style="list-style-type: none"> <li>- Furniture manufacturing process step by step from the beginning until the final phase in which the product is presented in addition to the techniques and materials used in the furniture production.</li> <li>- to articulate an informed point of view related to the fundamental issues of the discipline of furniture design</li> </ul> <p><b>Research:</b> investigate the market/client needs, analyze similar product examples.</p> <p><b>Design concept:</b> put primary ideas, draw sketches, plans, elevations, etc. that documents the chosen idea.</p> <p><b>Scale model:</b> learn to convert the design idea into small scale model which will help identify appropriate materials and manufacturing techniques.</p> <p><b>Prototype:</b> choose appropriate materials and manufacturing techniques to build a real size working prototype</p> <p><b>Testing:</b> learn the means and ways for testing the prototype and make necessary modifications according to testing results <b>Presentation :</b> learn methods of presenting and marketing the final product.</p>
2-3	<p><b>Project 7: Local Materials and Making</b></p> <p>• <b>Description of the project:</b></p> <ul style="list-style-type: none"> <li>- about local traditional handcraft techniques and materials and their evolution over the years.</li> <li>- how to incorporate traditional elements into contemporary furniture design.</li> </ul> <p><b>Field visit</b> to several local workshops where students are introduced to various handcraft techniques and materials. They will learn the hand making process with which a traditional furniture is produced.</p> <p><b>Field visit</b> to local traditional furniture showrooms where students will examine closely the final product (furniture) of the handmade process.</p> <p>Students are asked to make a report that summarizes all the information obtained from the field visit.</p> <p>Students are introduced to the type of machines such as Laser cutting and CNC machines that can be used in the process of traditional furniture making.</p> <p>Students are assigned to design a traditional piece of furniture and execute a small scale model with the previously mentioned machines.</p>

## Module 1 – Proportions and Geometry in Architecture

Week #	Topic
W1	Introduction to geometry and proportion
W2	Geometric proportional systems and terms Assignment #1
W3	Geometric proportional systems and terms Assignment #2 Project 1
W4	Geometric proportions in nature and cosmos Assignment #3
W5	Geometric proportional systems as tool for architecture Project 2
W6	Geometric proportional systems as tool for architecture
W7	
W8	Evolution of geometry in architecture Assignment#4 Project 3
W9	Sacred Geometry in east and west
W10	Sacred Geometry in east and west
W11	Geometry in Islamic architecture
W12	Assignment #5 Assignment #6
W13	Geometry and Parametric architecture Assignment #7
W14	Geometry and Parametric architecture Assignment #8
W15	Final submission of the final project according to the dep. Schedule

\* For each project: the specific schedule is within the project description.

## List of Suggested Projects in Accordance with HANDS LOs

Week	Project / Task
2-3	<p><b>Project 1: Geometric proportional systems and terms</b>  <b>Using equipment at HANDS workshops</b>            Description of Project: create a geometric pattern within its order systems  <b>Project follow up</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Analyzing the suggested pattern,</li> <li><input type="checkbox"/> Create 2D and 3D model for the pattern               <ul style="list-style-type: none"> <li><input type="checkbox"/> Beside the model, the student must present A3 sheet showing an analysis of the pattern he worked on, in terms of form and formality process</li> </ul> </li> </ul>

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2	<p><b>Project 2: Geometric proportional systems as tool for architecture Design</b>            Description of: Analyze architecture forms in terms of geometric and proportional systems</p> <p><b>Project follow up</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Analyzing the suggested Architectural form,</li> <li><input type="checkbox"/> the student must present A3 sheet showing an analysis of the Architectural form he worked on, in terms of form and pattern proportional process</li> </ul>
3	<p><b>Project (3): Evolution of geometry in architecture and Crafts</b>            Description of Project: Apply geometric knowledge on the design of a craft project with architecture form</p> <p><b>Project follow up</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Analyzing the suggested pattern,</li> <li><input type="checkbox"/> Create 2D and 3D model for the pattern</li> <li><input type="checkbox"/> Beside the model, the student must present A3 sheet showing an analysis of the pattern he worked on, in terms of form and formality process</li> </ul>
2-3	<p><b>Project (4): Geometric Design applications in craft project</b>            Description of Project: Apply geometric knowledge on the design of a craft project using HANDS equipment</p> <p><b>Project follow up</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Analyzing the suggested pattern,</li> <li><input type="checkbox"/> Create 2D and 3D model for the pattern</li> <li><input type="checkbox"/> Beside the model, the student must present A3 sheet showing an analysis of the pattern he worked on, in terms of form and formality process</li> </ul>

## Module 1 – Traditional Fashion / Jewelery Design

Week #	Topic
W1	Introduction and definition of the course, its objectives, requirements, steps, and the schedule of lectures, exams, and practical and research assignments associated with it. Traditional costumes, an introduction and an introduction to the extent of its importance and its role in distinguishing and distinguishing between peoples, as one of the most powerful expressive tools of the human personality.
W2	Traditional costumes in the continent of Asia, Arab models: Traditional costumes in Jordan, Palestine, Lebanon, and Syria. • Starting an applied project: (Fashion design based on traditional costumes).
W3	Traditional costumes in the continent of Asia, foreign models: India, Russia, China, and Indonesia.. Follow-up of the first project (designing fashions adapted from traditional costumes), implementing steps for one of the successful designs.
W4	Traditional costumes in the continent of Africa, Arab models: Egypt, Tunisia, Morocco, Algeria, and Sudan. Follow-up of the first project (designing fashions adapted from traditional costumes), implementing steps for one of the successful designs
W5	African traditional costumes - foreign models: Ghana, Kenya, Nigeria, and South Africa. First project delivery: designs, applied model.
W6	Starting the second applied project: (Fashion design based on traditional African fashion).
W7	Follow up on the second applied project: (Fashion design adapted from traditional African fashion), implementation steps for one of the successful designs
W8	Follow up on the second applied project: (Fashion design adapted from traditional African fashion), implementation steps for one of the successful designs
W9	Delivery of the second applied project: (Fashion design adapted from traditional African fashion), implementation steps for one of the successful designs.
W10	Traditional costumes in Jordan and Syria • Starting the third applied project: (Costume design adapted from traditional Jordan and Syria costumes).
W11	Follow up on the third applied project:
W12	Follow up on the third applied project:
W13	Follow up on the third applied project:
W14	Follow up on the third applied project:
W15	Project submission and evaluation

\* For each project: the specific schedule is within the project description.

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## List of Suggested Projects in Accordance with HANDS LOs

Week	Project / Task
5	<p><b>Project 1: Fashion design based on traditional costumes</b>  <b>Using equipment at HANDS workshops</b>            Description of Project 1:            - Case studies and approach.            - Considering social aspects.            - Considering Identity and culture.            - Considering the design of traditional / contemporary fashion and jewelery project</p> <p><b>Project follow up</b></p>
5	<p><b>Project 2: Fashion design based on traditional African fashion</b>  <b>Using equipment at HANDS workshops</b>            Description of Project 1:            - Case studies and approach.            - Considering social aspects.            - Considering Identity and culture.            - Considering the design of traditional / contemporary fashion and jewelery project</p> <p><b>Project follow up</b></p>
5	<p><b>Project (3): Costume design adapted from traditional Jordan and Syria costumes</b>  <b>Using equipment at HANDS workshops</b>            Description of Project 1:            - Case studies and approach.            - Considering social aspects.            - Considering Identity and culture.            - Considering the design of traditional / contemporary fashion and jewelery project            - Project follow up</p>

## Module 2 – Working Drawings

Week #	Topic
W1	Overview of the Course Stairs and Ramps Assignment #1
W2	Elevators and Escalators Assignment #2
W3	External Wall Finishing Internal Wall Finishing Site Visit
W4	Doors Windows/ skylight Assignment #3
W5	Metals in construction
W6	Wood construction
W7	Project 1: Explore the potential of materials and processes. Design a unique and decorative object (Steel work, Gypsum, Wood, stone), prepare the required drawings and prepare a model of the object
W8	Stone masonry
W9	Roof Finishing Ceiling (False ceiling/ Gypsum work)
W10	Kitchens Site Visit
W11	Bathrooms Assignment #4 Final submission of project 1
W12	Project 2: Explore the traditional craft experience. Design a wooden box , prepare the required drawings and prepare a model of the object
W13	Project 2 design follow up
W14	Final submission for Assignment #7 and discussion
W15	Final submission for Project 2 and discussion

\* For each project: the specific schedule is within the project description.

## List of Suggested Projects in Accordance with HANDS LOs

Week	Project / Task
2-3	<p><b>Project 1: Door design using traditional / contemporary craft applications</b>  <b>Using equipment at HANDS workshops</b>            Description of Project 1: traditional craft applications  <b>Lecture 1: Doors</b>  <b>Project follow up</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Analyzing case studies,</li> <li><input type="checkbox"/> Preparing full technical detailed drawings for the proposed design</li> <li><input type="checkbox"/> Build 3D model</li> </ul>           Functional Composition, Architectural style composition, Sequence of Experiences, Design Elements, construction working drawings details, 2D/3D Designs         </p>
2-3	<p><b>Project 2: Folding Screen - design using traditional / contemporary craft applications</b>  <b>Using equipment at HANDS workshops</b>            Description of Project 2: traditional craft applications  <b>Lecture 1: Screens</b>  <b>Project follow up</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Analyzing case studies,</li> <li><input type="checkbox"/> Preparing full technical detailed drawings for the proposed design</li> <li><input type="checkbox"/> Build 3D model</li> </ul>           Functional Composition, Architectural style composition, Sequence of Experiences, Design Elements, construction working drawings details, 2D/3D Designs         </p>
2-3	<p><b>Project 3: 3D wooden geometric Art - design using traditional / contemporary craft applications</b>  <b>Using equipment at HANDS workshops</b>            Description of Project 3: Geometric applications in craft work. Design and construct a small box using different joinery techniques such as dovetail, finger joints, or box joints. Students will learn precision cutting, assembly, and finishing techniques.  <b>Lecture 1: Geometric Design</b>  <b>Project follow up</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Analyzing case studies,</li> <li><input type="checkbox"/> Preparing full technical detailed drawings for the proposed design</li> <li><input type="checkbox"/> Build 3D model</li> </ul>           Functional Composition, Architectural style composition, Sequence of Experiences, Design Elements, construction working drawings details, 2D/3D Designs         </p>

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2-3	<p><b>Project 4: Wooden Boxes design with geometric and biomorphic design (traditional / contemporary craft applications)</b></p> <p><b>Using equipment at HANDS workshops</b></p> <p>Description of Project 3: Geometric and biomorphic applications in craft work</p> <p><b>Lecture 1:</b> Geometric and biomorphic Design</p> <p><b>Project follow up</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Analyzing case studies,</li> <li><input type="checkbox"/> Preparing full technical detailed drawings for the proposed design</li> <li><input type="checkbox"/> Build 3D model</li> </ul> <p>Functional Composition, Architectural style composition, Sequence of Experiences, Design Elements, construction working drawings details, 2D/3D Designs</p>
2-3	<p><b>Project 5: Small Table design (traditional / contemporary craft applications)</b></p> <p><b>Using equipment at HANDS workshops</b></p> <p>Description of Project 3: wood and metal applications in craft work</p> <p><b>Lecture 1:</b> material properties</p> <p><b>Project follow up</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Analyzing case studies,</li> <li><input type="checkbox"/> Preparing full technical detailed drawings for the proposed design</li> <li><input type="checkbox"/> Build 3D model</li> </ul> <p>Functional Composition, Architectural style composition, Sequence of Experiences, Design Elements, construction working drawings details, 2D/3D Designs</p>
2-3	<p><b>Project 6: Wooden Pergola design (traditional / contemporary craft applications)</b></p> <p><b>Using equipment at HANDS workshops</b></p> <p>Description of Project 3: wood and metal applications in craft work</p> <p><b>Lecture 1:</b> material properties</p> <p><b>Project follow up</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Analyzing case studies,</li> <li><input type="checkbox"/> Preparing full technical detailed drawings for the proposed design</li> <li><input type="checkbox"/> Build 3D model</li> </ul> <p>Functional Composition, Architectural style composition, Sequence of Experiences, Design Elements, construction working drawings details, 2D/3D Designs</p>

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## Module 3 – Conservation of Architectural Heritage

Week #	Topic
W1	What is Heritage Conservation + Introducing First Assignment (Thinking about Heritage) Assignment #1
W2	What is Documentation of Cultural Heritage? Examples on Heritage and Culture Heritage and Value + Introduction to Heritage Documentation Project 1: elements of traditional architecture / building craft documentation
W3	local architecture and social aspects 1st Assignment Submission, presentations and discussions
W4	Local architecture and Environmental values Preservation vs. Conservation + Main levels of intervention Introducing Second Assignment (Rethinking Your Heritage Case 5%) Assignment #2
W5	Preservation Ethics + Conservation Terminologies
W6	Second Assignment: continue presentations and discussions Project 2: elements of traditional architecture / building craft arabesque, mashrabia, and traditional motifs
W7	Conservation Theory + Conservation Spatial Models
W8	Conservation Tools
W9	International Conservation Charters, Athens Charter 1933 Introducing third Assignment (Identifying Links to Heritage Conservation Resources 10%)
W10	International Conservation Charters, Venice Charter 1964
W11	International Conservation Charters, Burra Charter 1979
W12	International Conservation Charters, the Nara Document - 1994
W13	Working Tasks for Recording Heritage Structures
W14	Documentation Group Project
W15	Final submission for Project 2 and discussion

\* For each project: the specific schedule is within the project description.

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**List of Suggested Projects in Accordance with HANDS LOs**

Week	Project / Task
2-3	<p><b>Project 1: Traditional motifs</b>            Description of Project 1:            Decorative definitions: motifs, on wood or stone  <b>Project follow up</b>  <input type="checkbox"/> Analyzing case studies,  <input type="checkbox"/> Preparing full technical documentations</p>
2-3	<p><b>Project 2: Elements of local traditional architecture</b>            Description of Project 2: Doors, Ceilings, Arches, and Mashrabias  <b>Lecture 1:</b> Screens  <b>Project follow up</b>  <input type="checkbox"/> Analyzing case studies,  <input type="checkbox"/> Preparing full technical documentations            Functional Composition, Architectural style composition, Sequence of Experiences, Design Elements, construction working drawings details, 2D/3D Designs</p>
2-3	<p><b>Project 3: Traditional architecture in contemporary design</b>            Description of Project 3: courtyard, furniture, and Geometric applications in craft work  <b>Lecture 1:</b> Geometric Design  <b>Project follow up</b>  <input type="checkbox"/> Analyzing case studies,            Functional Composition, Architectural style composition, Sequence of Experiences, Design Elements, construction working drawings details, 2D/3D Designs</p>
2-3	<p><b>Project 4: Traditional vs contemporary architectural elements</b>            Description of Project 3: environmental solutions, based on real case structures  <b>Project follow up</b>  <input type="checkbox"/> Analyzing case studies,  <input type="checkbox"/> Preparing full technical detailed drawings for the proposed design            Functional Composition, Architectural style composition, Sequence of Experiences, Design Elements, construction working drawings details, 2D/3D Designs</p>

## Module 4 – Practical Training

Week #	Topic
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.

### List of Suggested Projects in Accordance with HANDS LOs

Week	Project / Task
2-3	<p><b>Project 1: Design:</b>  <b>Geometry, biomorphic, calligraphy motifs</b>            Description of Project 1: traditional craft pattern applications            Digital Fabrication  <input type="checkbox"/> Preparing full technical detailed drawings for the proposed design  <input type="checkbox"/> Build 2D/3D Designs</p>
2-3	<p><b>Project 2: Design:</b>  <b>Stained glass applications</b>  <b>Using equipment at HANDS workshops</b>            Description of Project 2: traditional craft applications            Digital Fabrication  <input type="checkbox"/> Preparing full technical detailed drawings for the proposed design  <input type="checkbox"/> Build 2D/3D Designs</p>
2-3	<p><b>Project 3: Design:</b>  <b>Ceramics</b>  <b>Using equipment at HANDS workshops</b>            Description of Project 3: traditional craft applications            Digital Fabrication  <input type="checkbox"/> Preparing full technical detailed drawings for the proposed design  <input type="checkbox"/> Build 2D/3D Designs</p>
2-3	<p><b>Project 4: Design and build:</b>  <b>Furniture</b>  <b>Using equipment at HANDS workshops</b>            Description of Project 4: wood and metal applications in craft work            Digital Fabrication  <input type="checkbox"/> Preparing full technical detailed drawings for the proposed design  <input type="checkbox"/> Build 2D/3D Designs</p>
2-4	<b>Vocational courses</b>

## Module 5 – Engineering Workshops

Week #	Topic
W1	Safety procedures for using tools and equipment, including proper handling, maintenance, and personal protective equipment
W2	Introduction to Materials: Understanding different materials used in crafts, including wood, metal, and their properties.
W3	Identification and explanation of tools and equipment: i.e. Identification and explanation of tools and equipment used in crafting, including hand tools
W4	(e.g., chisels, hammers, saws), power tools (e.g., drills, sanders, routers), and specialized equipment (e.g., NC, Lazer, Electric oven, saws).
W5	Welding Metals: Basic process in welding.
W6	CNC Machine
W7	Assignments and projects that allow students to apply learned techniques and concepts to manufacturing process
W8	Metal Cutting: Metal cutting process such as milling and lathe using CNC machine.
W9	Carpentry: Various tools, machines and methods used in Carpentry shop.
W10	Manufacturing techniques such as carving, sculpting
W11	Assignments and projects that allow students to apply learned techniques and concepts to manufacturing process
W12	
W13	Designing and prototyping a new product using CAD (Computer-Aided Design) software.
W14	Utilizing 3D printing or CNC machining to produce prototypes.
W15	Final submission for Projects and discussion students to demonstrate their skills, creativity, and craftsmanship developed throughout the course.

## List of Suggested Projects in Accordance with HANDS Los

Week	Project / Task
2-4	<p><b>Project 1: Woodworking Projects:</b> using CNC techniques.</p> <p><b>Using equipment at HANDS workshops</b> Building a simple wooden furniture piece such as a stool, bench, or side table using joinery techniques like mortise and Tenon, dovetail, or box joints.</p> <p><b>Project follow up</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Analyzing case studies,</li> <li><input type="checkbox"/> Build 3D model, Composition, Sequence of Experiences, construction of 3D object</li> </ul>
2-4	<p><b>Project 2: Woodworking Projects:</b> using CNC techniques.</p> <p><b>Using equipment at HANDS workshops</b> Carving a decorative relief panel or sculpture from a block of wood, exploring different carving tools and techniques.</p> <p><b>Project follow up</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Analyzing case studies,</li> <li><input type="checkbox"/> Build 3D model, Composition, Sequence of Experiences, construction of 3D object</li> </ul>

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2-3	<p><b>Project 3: Ceramics Projects:</b></p> <p><b>Using equipment at HANDS workshops</b> Decorating ceramic pieces with surface treatments such as glazing, graffiti, carving, or underglaze painting.</p> <p><b>Project follow up</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Analyzing case studies,</li> <li><input type="checkbox"/> Build 3D model</li> </ul> <p>Composition, Sequence of Experiences, construction of 3D object</p>
2-3	<p><b>Project 4: Woodworking Projects: using CNC techniques.</b></p> <p><b>Using equipment at HANDS workshops</b> Joinery Box: Design and construct a small box using different joinery techniques such as dovetail, finger joints, or box joints. Students will learn precision cutting, assembly, and finishing techniques.</p> <p><b>Project follow up</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Analyzing case studies,</li> <li><input type="checkbox"/> Build 3D model, Composition, Sequence of Experiences, construction of 3D object</li> </ul>
2-3	<p><b>Project 5: Plastic Injection Molding:</b></p> <p><b>Using equipment at HANDS workshops</b> Designing molds for plastic parts using CAD software. Operating injection molding machines to produce plastic components.</p> <p><b>Project follow up</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> define colour procedures</li> <li><input type="checkbox"/> apply the glazing</li> </ul> <p>Composition, Sequence of Experiences, construction of glazed object</p>

## Module 5 – Manufacturing Process

Week #	Topic
W1	Introduction to Materials: Overview of commonly used materials in crafts such as wood, metal, ceramics, glass, and fibers.
W2	Properties of different materials including strength, flexibility, texture, and suitability for various crafting processes.
W3	Safety procedures for using tools and equipment, including proper handling, maintenance, and personal protective equipment Identification and explanation of tools and equipment: i.e. CNC, Lazer, Electric oven, saws, equipment
W4	Assignments and projects that allow students to apply learned techniques and concepts to manufacturing process
W5	Fundamentals of metal forming
W6	Machining
W7	Manufacturing techniques such as carving, sculpting
W8	Assignments and projects that allow students to apply learned techniques and concepts to manufacturing process
W9	Molding, casting, forging
W10	Powder Metallurgy
W11	Welding
W12	Surface Technology
W13	Assignments and projects that allow students to apply learned techniques and concepts to manufacturing process
W14	Designing and prototyping a new product using CAD (Computer-Aided Design) software. Utilizing 3D printing or CNC machining to produce prototypes.
W15	Final submission for Projects and discussion students to demonstrate their skills, creativity, and craftsmanship developed throughout the course.

## List of Suggested Projects in Accordance with HANDS LOs

Week	Project / Task
2-3	<p><b>Project 1: Forging a decorative object such as candle holders using CNC techniques.</b></p> <p><b>Using equipment at HANDS workshops</b></p> <p><b>Lecture 1:</b> Metal forging</p> <p><b>Project follow up</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Analyzing case studies,</li> <li><input type="checkbox"/> Build 3D model</li> </ul> <p>Composition, Sequence of Experiences, construction of 3D object</p>
2-3	<p><b>Project 2: Fabricating a metal jewelry piece using laser machines, sawing, filing, and polishing.</b></p> <p><b>Using equipment at HANDS workshops</b></p> <p><b>Lecture 1:</b> laser machine properties</p> <p><b>Project follow up</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Analyzing case studies,</li> </ul>

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	<input type="checkbox"/> Build 3D model Composition, Sequence of Experiences, construction of 3D object
2-3	<p><b>Project 3: Casting metal sculptures using casting process, exploring mold-making and metal finishing techniques.</b></p> <p><b>Using equipment at HANDS workshops</b>  <b>Lecture 1:</b> casting, forging  <b>Project follow up</b>  <input type="checkbox"/> Analyzing case studies,  <input type="checkbox"/> Build 3D model            Composition, Sequence of Experiences, construction of 3D object</p>
2-3	<p><b>Project 4: Product Design and Prototyping:</b></p> <p><b>Using equipment at HANDS workshops</b>            Description of Project 4: Designing and prototyping a new product using CAD (Computer-Aided Design) software.            Utilizing 3D printing or CNC machining to produce prototypes.  <b>Project follow up</b>  <input type="checkbox"/> Analyzing case studies,  <input type="checkbox"/> Build 3D model            Composition, Sequence of Experiences, construction of 3D object</p>
2-3	<p><b>Project 5: Plastic Injection Molding:</b></p> <p><b>Using equipment at HANDS workshops</b>            Description of Project 5: Designing molds for plastic parts using CAD software.            Operating injection molding machines to produce plastic components.  <b>Project follow up</b>  <input type="checkbox"/> define colour procedures  <input type="checkbox"/> apply the glazing            Composition, Sequence of Experiences, construction of glazed object</p>

## Module 6 – Basics of Ceramics

Week #	Topic
W1	introduction of the history of ceramic
W2	Introduction to clay the material
W3	preparing the sketches
W4	preparing the clay (compression, ropes, slices)
W5	Introduction to the potter's wheel, centering the clay, forming bowls and cylinders... trimming and burnishing on the wheel.
W6	How sculpture is made with clay, slab construction, extrusion, tile making and slip casting.
W7	Project 1: 3 round forms in increasing size and elongation ranging in size from 10- 20 cm with emphasis on elegant, refined contour.
W8	Project 2: 3 slab cylinder vessels, 15- 25 cm, emphasis on texture and process.
W9	Learn about ceramic techniques
W10	Learn about how to build and decorate the clay
W11	Getting to know about glazing and coloring ceramic
W12	Project 3: 5 wheel thrown bowl and or cylinder forms, 10 – 20 cm tall. Emphasis: understand wheel thrown ceramics, learn to centre.
W13	Texturing and coloring clay, color used in clay and slips, engobes, oxides and underglazes as well as non-traditional decorative techniques including acrylic paint and dye.
W14	Glazing: The function of glazes and how they are made up... simple glaze testing... proper application, health and safety.
W15	Final submission for Projects and discussion Critical seminars

\* For each project: the specific schedule is within the project description.

## List of Suggested Projects in Accordance with HANDS LOs

Week	Project / Task
2-3	<p><b>Project 1: Round forms in increasing size and elongation ranging in size from 10- 20 cm with emphasis on elegant, refined contour.</b></p> <p><b>Using equipment at HANDS workshops</b> Description of Project 1: traditional craft applications <b>Lecture 1: Pottery / Clay</b> <b>Project follow up</b> □ Analyzing case studies, □ Build 3D model Composition, Sequence of Experiences, construction of 3D object</p>
2-3	<p><b>Project 2: slab cylinder vessels, 15- 25 cm, emphasis on texture and process</b></p> <p><b>Using equipment at HANDS workshops</b> Description of Project 2: traditional craft applications <b>Lecture 1: Pottery / Clay</b> <b>Project follow up</b> □ Analyzing case studies, □ Build 3D model Composition, Sequence of Experiences, construction of 3D object</p>
2-3	<p><b>Project 3: slab bowl forms, "hump mold" method, with foot, diameter: 20 – 25 cm, emphasis, clarity and simplicity.</b></p> <p><b>Using equipment at HANDS workshops</b> Description of Project 3: traditional craft applications <b>Lecture 1: Pottery / Clay</b> <b>Project follow up</b> □ Analyzing case studies, □ Build 3D model Composition, Sequence of Experiences, construction of 3D object</p>
2-3	<p><b>Project 4: wheel thrown bowl and or cylinder forms, 10 – 20 cm tall. Emphasis: understand wheel thrown ceramics, learn to center.</b></p> <p><b>Using equipment at HANDS workshops</b> Description of Project 4: traditional craft applications <b>Lecture 1: Pottery / Clay</b> <b>Project follow up</b> □ Analyzing case studies, □ Build 3D model Composition, Sequence of Experiences, construction of 3D object</p>

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2-3	<p><b>Project 5: Glazing Applications</b> <b>Using equipment at HANDS workshops</b> Description of Project 5: glazing applications and techniques on different craft objects <b>Project follow up</b> <input type="checkbox"/> define colour procedures <input type="checkbox"/> apply the glazing Composition, Sequence of Experiences, construction of glazed object</p>
2-4	<p><b>Vocational courses</b></p>

## Module 6 – Handicrafts

Week #	Topic
W1	Introduction Identifying project materials, tools and devices, and getting to know their names and characteristics, and how to maintain them.
W2	Project 1: printmaking / Etching prepare the sketches and the surface of the metal (zinc), then transferring them on the surface of the metal and start etching, using the needle to draw.
W3	printing process: prepare a piece of metal and place it in the acid several times to obtain a variety of colour, and how to moisten the paper and inking.
W4	use Aquatint techniques and begin experimenting to obtain various degrees while presenting samples of graphic artists' works. Learn about Dry point techniques direct etching
W5	Getting to know (Chine Colle) techniques, and how to use it in their works. Learn about Open Bite techniques
W6	Project 2: Mosaics Research and Inspiration
W7	Choose a design i.e. a simple geometric pattern, an abstract design, or a representation of a specific object or scene. gather materials needed for your mosaic, such as tiles (ceramic, glass, or stone), adhesive, grout, and a base (wood, cement board, or mesh). Consider using recycled materials or broken tiles for an eco-friendly approach.
W8	Sketch your design on paper or create a digital mockup using design software. Transfer the design onto your chosen base using a pencil or marker.
W9	Reflect on your mosaic-making experience
W10	Project 3: Textile / rugs researching different types of textiles and rugs from various cultures, historical periods, and contemporary designs. Explore different materials, techniques, and patterns used in textile and rug making.
W11	Choose a design i.e. traditional pattern, a modern geometric design, or a unique creation of your own. Gather materials such as fabric (cotton, wool, silk, etc.), yarn, thread, needles, backing material (canvas, burlap, etc.), and any embellishments or decorations you plan to use.
W12	Start working on your textile or rug, following your chosen technique and design.
W13	working on your textile or rug, following your chosen technique and design.
W14	working on your textile or rug, following your chosen technique and design.
W15	Final submission for Projects and discussion Critical seminars

\* For each project: the specific schedule is within the project description.

## List of Suggested Projects in Accordance with HANDS LOs

Week	Project / Task
2-3	<p><b>Project 1: printmaking / Etching</b></p> <p><b>Using equipment at HANDS workshops</b> Description of Project 1: traditional craft applications <b>Lecture 1:</b> Printing process / Aquatint techniques</p> <p><b>Project follow up</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Design preparations</li> <li><input type="checkbox"/> practice on metal and place it in the acid to obtain a variety of colour, moisten the paper and inking crating composition. Experiences Sequence of experiences, production of the craft object.</li> </ul>
2-3	<p><b>Project 2: Mosaics Patterns</b></p> <p><b>Using equipment at HANDS workshops</b> Description of Project 1: traditional craft applications Lecture 1: geometric patterns, an abstract design, or a representation of a specific object or scene.</p> <p><b>Project follow up</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Design preparations</li> <li><input type="checkbox"/> practice on stone pieces. Obtain a variety of colour, to crating composition. Experiences Sequence of experiences, production of the craft object.</li> </ul>
2-3	<p><b>Project 3: Textile / Rug</b></p> <p><b>Using equipment at HANDS workshops</b></p> <p>Description of Project 3: traditional craft applications. Traditional pattern, a modern geometric design, or a unique creation of your own.</p> <p><b>Project follow up</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Design preparations</li> <li><input type="checkbox"/> practice on materials such as fabric (cotton, wool, silk). Obtain a variety of colour, to crating composition. Experiences Sequence of experiences, production of the craft object</li> </ul>
2-3	<p><b>Project 4: Glass window composition Design</b></p> <p><b>Using equipment at HANDS workshops</b> Description of Project 4: traditional craft applications. Design a window composition using stained glass on metal, gypsum or wood compositions.</p> <p><b>Lecture 1:</b> stained glass</p> <p><b>Project follow up</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Analyzing case studies,</li> <li><input type="checkbox"/> Build 2D model, Composition, Sequence of Experiences, construction of 3D object</li> </ul>

## Module 6 – Special topics in Architecture

Week #	Topic
W1	Module #1: Introduction: The power of entrepreneurship, The different types of entrepreneurship Startup history
W2	Module #2: Explaining startups What is a startup? Creative destruction and disruption Being an entrepreneur The startup ecosystem
W3	Module #3: The problem Finding a problem that needs to be solved Validating the problem Finding your target group
W4	Module #4: The Solution Creating and validating an idea The Build-Measure-Learn cycle Reaching customers
W5	Module #5: Product/market fit
W6	The problem, solution and market How to learn from customers Go-to-market strategy
W7	Project: Business Model CANVAS
W8	Module #6: Building a team The founding team Building a team and a culture
W9	Module #7: Company formation Setting up your company The capitalization table
W10	Module #8: Financing A race against the clock Different types of funding Investment process
W11	Project: Business Plan
W12	
W13	Module #9: Growth and impact Acquiring customers and growing People How do startups end? Conclusion
W14	Module #9: Growth and impact Acquiring customers and growing People How do startups end? Conclusion
W15	Final submission for Project 2 and discussion

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## List of Suggested Projects in Accordance with HANDS LOs

Week	Project / Task
1	Module 7 / workshops

## Module 6 – Weaving Technology

Week #	Topic
W1	Introduction
W2	Textile weaving Flax, silk fibers and fabrics
W3	Introduction to handlooms A) Frame Loom B) Rigid Heddle Loom C) Inkle Loom
W4	Embroidery / the art of decorating fabric
W5	Tools of handcrafts of weaving
W6	Tapestry Loom vertical loom and horizontal loom
W7	Project 1: utilization of tools and producing the fabrics
W8	Project 2: developing the design of the traditional fabric like Brocarte and Aghban
W9	Traditional Syrian Fabrics
W10	Types of natural fibers and their utilizations Cotton, Silk, Linen, Wood, Leather, Tarp, and Jute,
W11	Introducing the term of marketing in traditional fabrics field
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 Critical seminars

\* For each project: the specific schedule is within the project description.

## List of Suggested Projects in Accordance with HANDS LOs

Week	Project / Task
2-3	<p><b>Project 1: Handcraft weaving</b></p> <p><b>Using equipment at HANDS workshops</b> Description of Project 1: traditional craft applications / Frame Loom</p> <p><b>Project follow up</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Design preparations</li> <li><input type="checkbox"/> practice on Composition, Sequence of Experiences, production of the fabric object</li> </ul>

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2-3	<p><b>Project 2: Handcraft weaving</b></p> <p><b>Using equipment at HANDS workshops</b> Description of Project 1: traditional craft applications / Tapestry Loom</p> <p><b>Project follow up</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Design preparations</li> <li><input type="checkbox"/> practice on Composition, Sequence of Experiences, production of the fabric object</li> </ul>
2-3	<p><b>Project 3: Fabric partition</b></p> <p><b>Using equipment at HANDS workshops</b></p> <p>Description of Project 3: traditional craft applications. Design of a partition / Screen using Loom techniques.</p> <p><b>Project follow up</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Design preparations</li> <li><input type="checkbox"/> practice on Composition, Sequence of Experiences, production of the fabric object</li> </ul>
2-3	<p><b>Project 4: Fabric Design</b></p> <p><b>Using equipment at HANDS workshops</b></p> <p>Description of Project 4: traditional craft applications fabric design</p> <p><b>Lecture 1: Fabric design parameters</b></p> <p><b>Project follow up</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Analyzing case studies,</li> <li><input type="checkbox"/> Build 2D model, Composition, Sequence of Experiences, construction of 3D object</li> </ul>