Course Specifications

Course Title:	**Glass Design studio**
Course Code:	**421AAD-4**
Program:	**Bachelor in Applied Arts**
Department:	**Applied Arts**
College:	**Faculty of Architecture and Design**
Institution:	**JAZAN UNIVERSITY**

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A. Course Identification

1. Credit hours: 4 H
2. Course type **a.** University ☐ College ☐ Department √ Others ☐ **b.** Required √ Elective ☐
3. Level/year at which this course is offered: Level 8 4rd year
4. Pre-requisites for this course (if any)**:** -
5. Co-requisites for this course (if any)**:** Computer lab

6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	**Traditional classroom - practical**	8	100 %
2	**Blended**	-	0 %
3	**E-learning**	-	0 %
4	**Correspondence**	-	0 %
5	**Other**	-	0 %

7. Actual Learning Hours (based on academic semester)

No	Activity	Learning Hours
Contact Hours		
1	**Lecture**	0
2	**Laboratory/Studio**	8*15=120
3	**Tutorial**	0
4	**Others** (specify)	4
	Total	124
Other Learning Hours*		
1	**Study**	3*15=45
2	**Assignments**	2
3	**Library**	1.5
4	**Projects/Research Essays/Theses**	0
5	**Others** (specify)	0
	Total	46.5

* The length of time that a learner takes to complete learning activities that lead to achievement of course learning outcomes, such as study time, homework assignments, projects, preparing presentations, library times

B. Course Objectives and Learning Outcomes

1. Course Description

1- Determination of architectural glass design elements.
2- To recognize the glass application systems in architecture.
3- Know the basic requirements for architectural glass design.
4- Know the most important aesthetic, functional and environmental requirements in the design of glass products

2. Course Main Objective

Training students to use graphics program – image modification, drawing.

3. Course Learning Outcomes

CLOs		Aligned PLOs
1	**Knowledge:**	
1.1	Analysis, simplification and redesign of design elements derived from different technical models.	K1
1.2	Choose the right model according to the requirements of the environment. Display design ideas in a distinctive way.	K2
2	**Skills:**	
2.1	Determination of architectural glass design elements.	S3
2.2	Knowledge of the basic requirements of architectural glass design.	S1
3	**Competence:**	
3.1	The skills of drawing engineering and determining the dimensions and proportions of the required artwork for architectural facades.	C5
3.2	The skills of calculating each technique and the requirements of its implementation with raw materials and engineering drawings	C1

C. Course Content

No	List of Topics	Contact Hours
1	General introduction to the course: Introduction to the design - setting the schedule - defining projects (architectural glass facades, exterior and interior, glass hangings) Simulation of a previous stained glass design.	8
2	Initial ideas for a stained-glass design suitable for interior and exterior architectural facades. Creating an innovative design with stained glass technology, suitable as a mural.	8
3	Definition of stained glass technology. Initial ideas for stained glass design.	8
4	The work of the first innovative design suitable for stained glass technology. Create a second innovative design suitable for stained glass technology.	8
5	completing the stained glass design. Color rendering in previous designs.	8
6	Introducing the technique of engraving on glass using sandblasting. Initial ideas for designing a sandblasting glass etching technique.	**8**
7	• Creating a new design with the technique of engraving on the glass using	8

	sand sprinkling, suitable for barriers or partitions in (bathrooms, sitting rooms, restaurants or hotels).	
8	Mid-term exam.	8
9	Initial ideas for a recurring unit suitable for stained glass with gypsum	8
10	Design the work in the style of the repeated unit with the selection of the appropriate architectural opening	8
11	Initial ideas for a mural suitable for glass mosaic technology	**8**
12	• A mural design that matches the glass mosaic technology	8
13	• A mural design that matches the glass mosaic technology	8
14	• Follow up the implementation and completion of all projects and exercises	8
15	Final exam for the semester8	
Total		

D. Teaching and Assessment

1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
1.0	**Knowledge**		
1.1	Analysis, simplification and redesign of design elements derived from different technical models	Lecture PowerPoint presentation on discussing glass products	Design Assessment
1.2	Choose the right model according to the requirements of the environment.		
2.0	**Skills:**		
2.1	Determination of architectural glass design elements.	Brain storming Design Practical Self – education	Objective test Design Assessment
2.2	Knowledge of the basic requirements of architectural glass design.		
3.0	**Competence:**		
3.1	The skills of drawing engineering and determining the dimensions and proportions of the required artwork for architectural facades.	Cooperative Learning Practical work Use of computer fees and information network programs	Design Assessment Performance-based calendar-note-calendar based on project delivery, output and presentation
3.2	The skills of calculating each technique and the requirements of its implementation with raw materials and engineering drawings.		

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	**Simulation and redesign exercise for the development of visual culture and visual perception**	**1**	**5 %**
2	**The first project presentation (semi 3D tiles for architecture**	**2-4**	**10 %**

#	Assessment task*	Week Due	Percentage of Total Assessment Score
	facades and interior design- mass productions)		
3	The second presentation of the project (stained glass design) The design elements are the source of Islamic art, geometric shapes or nature.	5-6	10 %
4	The third presentation of the project (engraving design on glass, design elements, Islamic art, geometric shapes, or an optional element)	7-10	15 %
5	The fourth project is a wall design identical to the glass mosaic technology - the elements define the effect and theme of the design	11-13	10 %
6	midterm test	7	10%
7	Final evaluation	14	40 %
8	Final exam	End of the semester	6.66 %
The three projects work in parallel			

***Assessment task** (i.e., written test, oral test, oral presentation, group project, essay, etc.)

E. Student Academic Counseling and Support

Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice:

Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice. (include amount of time teaching staff are expected to be available each week)

According to Academic Advising program in department

F. Learning Resources and Facilities

1.Learning Resources

Required Textbooks	Peter Layton-Glass Art
Essential References Materials	Stanislav Libensky and Jaroslava A 40-year Collaboration in Glass (Art &Design)1994 Michael Wigginton – Glass in Architecture – 19 Mar 2002
Electronic Materials	Andy McConnell Swedish Glass Design A.O. ALEXANDROV EARLY 20TH CENTURY LIGHTING: Electric and Gas (Schiffer Book for Collectors) Paperback – 15 May 2002-Pinterest
Other Learning Materials	Photoshop program Engineering Drawing An engineering perspective and a free perspective

2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	**Computer labs with 20 computers.**
Technology Resources (AV, data show, Smart Board, software, etc.)	**software (illustrator and Photoshop, RHINO CEROS,)data show in design classroom**

Item	Resources
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	**Small size digital glass printing machine to implement samples of some designs**

G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Effectiveness of teaching and assessment .	Student	Online system course evaluation. Indirect Objective test. direct
Quality of learning resources	Student	Online system course evaluation. Indirect Objective test. direct
Course learning outcomes	Student	Course learning outcomes survey. Indirect

Evaluation areas (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes, Quality of learning resources, etc.)
Evaluators (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify)
Assessment Methods (Direct, Indirect)

H. Specification Approval Data

Council / Committee	
Reference No.	
Date	