



Course Specification

— (Bachelor)

Course Title: Glass Production

Course Code: 422- AAD-3

Program: Bachelor in Applied Arts

Department: Applied Arts

College: Faculty of Architecture & Design

Institution: Jazan University

Version: Developer

Last Revision Date: 2023



Table of Contents

A. General information about the course:	. 3
B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods	
C. Course Content	. 4
D. Students Assessment Activities	. 5
E. Learning Resources and Facilities	. 5
F. Assessment of Course Quality	. 5
G. Specification Approval	. 6





A. General information about the course:

Co	urse Identification					
1. (Credit hours:3					
2. (Course type					
a.	University □	College □	Departn	nent⊠	Track□	Others□
b.	Required ⊠	Elective□				
3.	Level/year at whic	ch this course is o	ffered:			
- 7 exp stu	periences with c	s to familiarize different techniquentific basis conc	ues for operation was designed in the contraction of the contraction o	glass prod ays of bu	duction, as urning glass	dations and practical it aims to familiarize and learn about the es
5.	Pre-requirements	for this course (i	f any): No	ne		
6.	Co- requirements	for this course (i	f any): No	ne		

7. Course Main Objective(s)

- Students learn about different ways to produce stained glass in a variety of ways. It also learns about different cutting methods and cutting machines in glass, as well as the necessary precautions that must be met and followed up for safety and safety when using furnaces. This is in addition to the ability to expand the knowledge of the nature of the use of glass furnaces as well as the student's recognition of the importance of the process of manual configuration and the tools used in it and its advantages. As well as the ability to practice the skills of communication with others, and interaction in the debate and dialogue and the collective and accept criticism and opinion of the other.

1. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1.	Traditional classroom	5 hours	100 %
2.	E-learning	-	0 %
	Hybrid		0 %
3.	Traditional classroomE-learning	-	
4.	Distance learning	-	0 %





2. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	Lectures	$2 \times 15 = 30$
2.	Laboratory/Studio	
3.	Field	
4.	Tutorial	
5.	Others (specify)	$3 \times 15 = 45$
	Total	75





B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
1.0	Knowledge and understanding			
1.1	Demonstrate knowledge of the different ways of producing stained glass with different types and mosaics, and methods of cutting and digging glass.	K1		
1.2	Defined the differences between the techniques used in glass production and their relation to economic, environmental and technological standards.	K2		
2.0	Skills			
2.1	Demonstrate various technical for produce of glass	S1		
2.2	Interpret the problems and solutions to different glass forming methods using appropriate technological methods.	S2		
2.3	Apply creative skills of the individual and collective level in the production of stained glass and mosaics and the use of melting furnaces and refrigeration.	S3		
3.0	Values, autonomy, and responsibili	ty		
3.1	Analyze the nature of the operational capabilities of the glass product to match the different stages and methods of production technology and functions	V1		
3.2	Illustrate professional values and ethical behaviors needed for leadership,	V2		

C. Course Content

No	List of Topics	Contact Hours
1.	- Mosaic (opaque - transparent) (flat - stereogram)	10
2.	- Stained glass with Gypsum	5
3.	- Stained Glass (Leaded - Copper - Cement - Iron)	10



4.	- Mechanical drilling on glass using Stones of carburendum and copper discs	7
5.	- Mechanical drilling on glass using sand spray or carburendum powder	8
6.	- Chemical drilling on glass (hydrofluoric acid)	7
7.	- Chemical drilling on glass (with ammonium fluoride salt) (Scratching glue)	8
8.	- Hot forming for melted glass (manual)	5
9.	- forming Semi-automatic and automatic for glass	5
10.	- Melting kilns - Cooling kilns	10
11.		
	Total	75

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Continuous evaluation	15	20%
2.	Mid Term	8	20%
3.	Practical Exercises	Periodically	20%
	Final exam	16	40%

^{*}Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.)





E. Learning Resources and Facilities

1. References and Learning Resources

Essential References	- روؤف نحاس: صناعة الزجاج ، دار النهضة العربية ـ القاهرة ـ 1998. - محمد زينهم: تكنولوجيا فن الزجاج ـ الهيئة المصرية العامة للكتاب ـ 1995م.
Supportive References	 Laurel Skye, Mosaics Renaissance: Millefiori in Mosaics Paperback - November: Glass Design, Andy McConnell Swedish, 13, 2009 A. O. ALEXANDROV: Glass Processing Days- Materials Sci
Electronic Materials	http://www.mosaicartsupply.comhttp://www.corning.com/http://www.glassart.org/
Other Learning Materials	- Presentation

2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	* Classrooms with 40 circular tables. * Lab porcelain and glass with 25 students and equipped
Technology equipment (projector, smart board, software)	- Computer, Projectors - Electronic board
Other equipment (depending on the nature of the specialty)	 Technical materials and tools such as mud and water and wooden utensils for sculpture Basins and sinks for washing and cleaning tools

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessme	nt Methods
		indirect method	direct method
	Students	On line	
		system	
Effectiveness of teaching		course	
		survey	
	Peer Reviewer or Head of Department		Peer OR Head of Department observation
Effectiveness of students	Students	On line system	
assessment		course	
		survey	



Assessment Areas/Issues	Assessor	Assessment Methods	
	Peer Reviewer or Head of Department		Peer OR Head of Department observation
Quality of learning resources	Students	On line system course survey	
edulity of learning resources	Peer Reviewer or Head of Department		Peer OR Head of Department observation
	Students	Course LO survey	
The extent to which CLOs have been achieved	Program Assessment Committee		Theoretical and practical tests According to Test specificatio n table
Other			

Assessor (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify)
Assessment Methods (Direct, Indirect)

G. Specification Approval Data

COUNCIL /COMMITTEE	
REFERENCE NO.	
DATE	

