هيئة تقويم التعليم والتدريب
Education & Training Evaluation Commission

2023
TP-153

Course Specification
(Bachelor)

Course Title:	**Experimental studies in glaze and glass coating**
Course Code:	**414 - AAD-3**
Program	Bachelor in Applied Arts
Department:	Applied Arts
College: :	Faculty of Architecture and Design
Institution:	JAZAN UNIVERSITY
Version:	2023 - 2024
Last Revision Date:	10/9/2023

Table of Contents

A. General information about the course:

1. Course Identification

1. Credit hours: (3-(0-6)H					
(٣-(2-2)H					
2. Course type					
A.	☐University	☐College	☒ Department	☐Track	☐Others
B.	☐ Required		☒ Elective		
3. Level/year at which this course is offered: Level 10/4th Year					
4. Course general Description:					
Definition and classification anti and ceramic and glass objects and characteristics of raw materials within the installed and its role in checking the stages and methods of preparation, and the decision to provide practical experience in some of the special modules and glass powder coating, and address the shortcomings of the coating Glass objects and identify its causes					
5. Pre-requirements for this course (if any)**:**					
6. Co-requisites for this course (if any)**:**					
7. Course Main Objective(s):					
The student remembers the basic types of ceramic's glazes , and glass and the characteristics of each type, and also recognizes the decorations with colored - coating before and after the drought and methods of applying them to ceramic product old and recent. It also recognizes the different types of ceramic and glass bodies and their ability to collect information in the subjects of the course, Raw materials and their effect on mixtures (porcelain and glass). And analysis of the resulting defects and their causes, and distinguished between the techniques of decoration and beautification of ceramic and glass works.					

2. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	**4**	**100 %**
2	E-learning		**0**
3	Hybrid • Traditional classroom • E-learning		**0**
4	Distance learning		**0**

3. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	**Lectures**	**4**
2.	**Laboratory/Studio**	**4*10=40**

3.	**Field**	
4.	**Tutorial**	
5.	**Others (specify)**	**4**
Total		**48**

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 ingredients and formulations of the different characteristics of different recipes of ceramics, glass.	K1	Lectures. Discussion. Open debate Brainstorming Field visits.	Direct method (objective test) By test specification table
1.2	**Defined** the technical and plastic characteristics of the glass coatings and the methods of their use on ceramic and glass products.	K2		
2.0	**Skills**			
2.1	Apply creative skills of the individual and collective level in the use of different types of coatings suitable for ceramic and glass objects.	S1	Lectures. Self education Discussion. Brainstorming Studio practice Field visits.	Designs assessment. Direct method (objective test) by Test specification table
2.2	Interpret the problems and solutions to the colors resulting from the effect of the different oxides in the composition of the ceramic and glass bodies on the color of the finished product.	S2		
3.0	**Values, autonomy, and responsibility**			
3.1	Evaluate ceramic and glass mixtures and surface treatment methods with international standard specifications and apply them when designing the product.	V1	- Presentations. - Cooperative education.	- direct method (Objective test) by Test specification table - indirect method Course LO survey

C. Course Content

No	List of Topics	Contact Hours
1.	*- Raw materials used in Porcelain tile and their characteristics*	4
2.	- Effect of different **materials** in mixtures on the color of the Porcelain **tile**	6
3	Methods of analysis and measuring properties of Porcelain mixtures	4
4	-Raw materials used in glass objects (network installation-alkaline elements)	4
5	- The installed components for network installation-intermediate-colored items	4
6	Mid trim 1	4
7	- coating (defined-fitted-processing methods-methods applied)	4
8	- glass coating components (installed)-subdivisions-methods applied	6
9	- Methods of using glass coating on the production line	4
10	- Thermal glass coatings on glass products	4
11	Final exam	4
Total		**48**

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Practic and class work	40/weekly	40%
2.	Mid term exam	10 / 6th week	10%
3.	Committee evaluation	10 / 11th week	10%
4.	Final exam	40 / 12th week	40%
	TOTAL	100	100%

*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	- فوزي عبد العزيز القيسي: تقنيات الخزف والزجاج - دار الشرق - ٢٠٠٣
Supportive References	1. - محمد زينهم : تكنولوجيا فن الزجاج - الهيئة المصرية العامة للكتاب - ١٩٩٥م. Hua- Tay Lin, Dongming Zhu, Advanced Ceramic Coatings and Interfaces Ceramic Engineering, Volume 3, 2009
Electronic Materials	- Fauzi Abdul Aziz Qaisi: ceramic techniques and glass – Dar El shorouk 2003
Other Learning Materials	John kersoil, Mohamed Amer subtitles Eng, Chinese porcelain and its impact on the West, Arab Cairo book House, 1998 - John kersoil, Mohamed Amer subtitles Eng, Chinese porcelain and its impact on the West, Arab Cairo book House, 1998

2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Classrooms containing 15 - 20 tables for Engineering Drawing & 15 - 20 chairs.
Technology equipment (projector, smart board, software)	- 1projector ,1laptop, Internet access..
Other equipment (depending on the nature of the specialty)	Note required

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods	
Effectiveness of teaching	Students	Online system course survey	Peer OR Head of Department observation
	Peer Reviewer or Head of Department		
Effectiveness of Students assessment	Students	Online system course survey	Peer OR Head of Department observation
	Peer Reviewer or Head of Department		
Quality of learning resources	Students	Online system course survey	Peer OR Head of Department observation
	Peer Reviewer or Head of Department		
The extent to which CLOs have been achieved	Students	Course LO survey	Jury
	Program Assessment Committee		
Other			

Assessors (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify)

Assessment Methods (Direct, Indirect)

G. Specification Approval

COUNCIL /COMMITTEE	**DR. SANAA EISSA**
REFERENCE NO.	**HEBA AHMED ABDELAAL ELSAYD** Heba Ahmed
DATE	**9/2023**