

Academic Program Description Form

University Name: Baghdad

Faculty/Institute: Fine Arts

Scientific Department: Plastic Arts

Academic or Professional Program Name: B.Sc. Of Fine Arts

Final Certificate Name: B.Sc. Of Plastic Arts

Academic System: Annual

Description Preparation Date:

File Completion Date:

Signature:

Head of Department Name:

Prof. Dr. Mohammed Challob Jebur

Date: 26/3/2024

Signature:

Scientific Associate Name:

Prof. Dr. Rajaa Saadi Lafta

Date: ~~Rajaa~~

26/3/2024

The file is checked by:

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance

Department:

Date:

Signature:

Approval of the Dean

1. Course Name:	
Glaze Technology 2 E	
2. Course Code:	

3. Semester / Year:	
Annual	
4. Description Preparation Date:	
28/2/2024	
5. Available Attendance Forms:	
Just present	
6. Number of Credit Hours (Total) / Number of Units (Total)	
2 hours per week - 60 hours per year - 2 units	
7. Course administrator's name (mention all, if more than one name)	
Name: Prof. Dr. Ahmed Hashim Al-Hindawi Email: dr.ahmed.al-hindawi@cofarts.uobaghdad.edu.iq	
8. Course Objectives	
1- The student knows the properties and structure of glass.	•
2-The student knows the properties of the materials that make up glass.	•
3- Learn glass calculations according to the required specifications.	•
4- Learn to analyze the results and learn to analyze the physical, mechanical and chemical properties of the produced glass.	
9. Teaching and Learning Strategies	
Strategy	-Traditional lecture. 2- Brainstorming. 3- Modeling method. 4- Application by the student.

10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	1-Learn the nature of glass and its components oxides in the three oxide groups - basic, neutral and acidic (RO, R2O-R2O3-RO2)	1-The random theory of glass construction	1-It is an obligation for the student to review the scientific material allocated for the lesson according to the vocabulary.	Oral exams Weekly, monthly, daily, editorial and report And the end of the year exam.
2	2	2-By knowing the properties of the oxides of each group	2- General chemical definitions	2- A detailed explanation of the subject of the scientific material, supported by diagrams, tables, and illustrative examples.	
3	2	3- Learn the mechanisms for calculating glass formulas according to the specifications achieved	3- Oxides and materials that make up glass	3- Student participation and discussion in the subject.	
4	2	Access to the aesthetic aspect.	4- Acidic, neutral and basic substances	4- As for extracurricular activities, they include application in the laboratory and learning the results	
5	2	4- Result: The student learns to apply the rules and laws that determine the maturation temperature of glass, its optical and color nature, the relationship of the glass layer to the pottery body, and evaluate the physical and mechanical properties.	5- Molecular weight and equivalent molecular weight		
6	2		6- Exam.....		
7	2		7- Transparency in glass		
8	2		8- Darkness and its causes in glass		
9	2		9- Fritted glass		
10	2		10- Eutactical base		
11	2		11- Seger rule		
12	2		12- Exam.....		
13	2		13- Crystallization (Amorphus)		
14	2		14-Coloring (oxides and dyes)		
15	2		15-Theory of color formation		
vacation	----		13- Light concepts (reflection, absorption, refraction)		
16	2		14-Exam.....		
17	2		15- Optical concepts (scattering and scattering)		
18	2		16- Burning atmosphere		
19	2		17- The temperature range for maturity		
20	2				
21	2				
22	2				
23	2				
24	2				
25	2				
26	2				
27	2				
28	2				
29	2				

30		<p>5- Preparing glass in the laboratory by using theories and rules and coloring it using transition element oxides</p> <p>6- Applying it to various pottery objects</p>	<p>18- Transitional elements</p> <p>19- Ionic diffusion</p> <p>20- Exam.....</p> <p>21- Reactions that cause color in glass (ionic reaction)</p> <p>22- Crystal reaction, colloidal reaction</p> <p>23- Glass calculations - and their stages</p> <p>24- Glass account - low temperature, transparent</p> <p>25 - Glass account - high temperature opaque</p> <p>26- Exam.....</p> <p>27- Balance and imbalance between the components of glass</p> <p>28- Darkness due to different phases. 29- Glass errors (withdrawal and peeling).</p> <p>30- Glass errors (bubbles and blisters)</p>		
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11. Course Evaluation

25 marks for monthly and daily exams for the first semester. 25 marks for monthly and daily exams for the second semester. 50 marks for final exams

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	1-Badri, Ali Haider Saleh, The Scientific Techniques of Ceramic Art, Glaze and Colours, Yarmouk University, Jordan, 1st edition, 2002
Main references (sources)	1-Hamer, Frank, The Potters Dictionary of Materials and Techniques, New York, 1975. 75. 2-Green, D., Understanding Pottery Glaze, Faber and Faber limited, London, 1975.
Recommended books and references (scientific journals, reports...)	https://www.facebook.com/CeramicsMonthlyMagazine ceramicsnow.org/
Electronic References, Websites	www.Digitalfire.com

