

SER-225 - GLASS FORMING - Güzel Sanatlar Fakültesi - Seramik Cam Bölümü

General Info

Objectives of the Course

The course aims to introduce students to glass material, teach glass forming techniques, and provide hands-on experience in applying these techniques.

Course Contents

History of glass, its physical and chemical properties, basic glass forming techniques (fusing, flame working, molding, etc.), design and application processes.

Recommended or Required Reading

Various types of glass (float glass, colored glass), glass cutting and shaping hand tools, furnace, protective equipment (gloves, glasses, etc.). Bilgehan Uzuner, Bulunuşundan Üfleme Uygulamalı Cam Teknikleri AKANTAŞ, İnkılap Kitabevi, 2004.

Planned Learning Activities and Teaching Methods

Theoretical lectures, practical studio work, individual project creation, presentations, and evaluation sessions. Lecture, demonstration, hands-on practice, experiential learning, project-based learning.

Recommended Optional Programme Components

Students are required to follow workshop safety rules and use protective equipment.

Instructor's Assistants

There is no assistant teaching staff.

Presentation Of Course

Face-to-face; theoretical and practical sessions are conducted in a studio environment.

Dersi Veren Öğretim Elemanları

Assoc. Prof. Dr. Betül Aytepe Serinsu

Program Outcomes

1. Can explain the glass forming methods.
2. Can apply glass shaping methods.
3. Can apply glass firing methods.

Weekly Contents

Order	PreparationInfo	Laboratory TeachingMethods	Theoretical	Practise
1	Bilgehan Uzuner, Bulunuşundan Üfleme Uygulamalı Cam Teknikleri AKANTAŞ, İnkılap Kitabevi, 2004. p.1-14	Lecture, Discussion Method, Question and Answer	Introduction, general introduction to the course and its topics, definition of glass. History of glass, chemical structure of glass.	
2	Bilgehan Uzuner, Bulunuşundan Üfleme Uygulamalı Cam Teknikleri AKANTAŞ, İnkılap Kitabevi, 2004. p.25-45	Lecture, question and answer	Glass shaping techniques	
3		Lecture, question and answer	Providing information about glass cutting techniques	Demonstration of glass cutting technique and students' practice
4		Lecture, question and answer, Skill Development Work, Practice		Preparing clay molds for fused glass application: Design process
5		Lecture, question and answer, Skill Development Work, Practice		Preparing clay molds for fused glass application: Design process
6		Lecture, question and answer, Skill Development Work, Practice		Preparing a clay mold for fusion glass application: Clay shaping process

Order	PreparationInfo	Laboratory TeachingMethods	Theoretical	Practise
7		Lecture, question and answer, Skill Development Work, Practice		Preparing a clay mold for fusion glass application: Clay shaping process
8				midterm exam
9		Lecture, Discussion Method, Question and Answer	Providing information about the ceramic kiln firing diagram	Preparing clay molds for fusion glass application: Drying, biscuit firing
10	Providing information about gla Bilgehan Uzuner, Bulunuşundan Üfleme Uygulamalı Cam Teknikleri AKANTAŞ, İnkılap Kitabevi, 2004. p.28-33	Lecture, question and answer, Skill Development Work, Practice	Providing information about the glass kiln firing diagram	Fusion glass applications of the fired mold: Glass kiln firing process
11		Lecture, question and answer, Skill Development Work, Practice		Fusion glass applications of the fired mold: Glass kiln firing process, coloring
12		Lecture, question and answer, Skill Development Work, Practice		Fusion glass applications of the fired mold: Glass kiln firing process, coloring
13		Lecture, question and answer, Skill Development Work, Practice	Providing information about glazing	Glazing and firing of ceramic molds
14		Lecture, question and answer, Skill Development Work, Practice		Creating compositions of glass and ceramics
15		Lecture, question and answer, Skill Development Work, Practice		Creating compositions of glass and ceramics Final exam

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Vize	1	1,00
Final	1	1,00
Soru-Yanıt	14	2,00
Anlatım	14	2,00
Tartışma	10	2,00
Uygulama / Pratik	14	4,00
Final Sınavı Hazırlık	2	4,00
Ders Öncesi Bireysel Çalışma	4	2,00
Ders Sonrası Bireysel Çalışma	4	2,00
Ara Sınav Hazırlık	2	4,00

Assesments

Activities	Weight (%)
Vize	40,00
Final	60,00

	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15
L.O. 1	3	3	4	5	5	4	5	5	5	4	5	5	5	5	5
L.O. 2		4	5	4	4	5	5	3	5	5	4	4	4	5	5
L.O. 3									3	4	5	5	5	4	5

Table :

- P.O. 1 :** Have knowledge in the fields of art, design and ceramics, as well as the skills to put this knowledge in practice
- P.O. 2 :** Have research, experimentation, analysis, evaluation and interpretation ability
- P.O. 3 :** Design and create a product / a work / a process that will meet the need or propose a solution to a problem, taking into account the restrictions arising in the field of ceramics
- P.O. 4 :** Have the ability to working groups or individually relating their field knowledge with other disciplines
- P.O. 5 :** Determine, describe and propose solutions to problems in the art and design of ceramics
- P.O. 6 :** Have professional and ethical responsibility in intellectual and artistic works
- P.O. 7 :** Communicate effectively and express themselves verbosely
- P.O. 8 :** Understand the impact of art and design solutions at a global and societal level
- P.O. 9 :** Have a full understanding of the necessity of life long learning and are equipped with the skills and an awareness of sustaining it
- P.O. 10 :** Develop a self-awareness of contemporary issues
- P.O. 11 :** Use the necessary techniques and innovations required for art and design applications
- P.O. 12 :** Sustain a strong research orientation, and show determination and willingness to adapt technological developments in ceramics
- P.O. 13 :** Share an awareness of art and design in the community with an understanding and adaption of social and cultural responsibilities
- P.O. 14 :** Show professional self-confidence with a conceptual knowledge in creativity processes
- P.O. 15 :** Follow international developments, realize art and design as a social responsibility
- L.O. 1 :** Can explain the glass forming methods.
- L.O. 2 :** Can apply glass shaping methods.
- L.O. 3 :** Can apply glass firing methods.