

SER-207 - PLASTER DESIGN AND MOULDING TECHNIQUES I - Güzel Sanatlar Fakültesi - Seramik Cam Bölümü

General Info

Objectives of the Course

Students the techniques of shaping plaster material and producing model molds. The course focuses on creating various shapes using plaster, the fundamentals of mold making, and the plaster modeling processes. In addition to theoretical knowledge, students will gain practical skills in plaster shaping and mold production, enhancing their technical abilities in the production process of ceramic art.

Course Contents

Covers fundamental techniques in shaping plaster material and mold making. The course includes essential information for working with plaster, plaster mixtures and appropriate ratios, plaster mold-making techniques, the use and applications of different types of molds, and both theoretical and practical aspects of plaster shaping methods. Additionally, students will engage in plaster modeling practices to develop their skills in working with plaster material.

Recommended or Required Reading

The required materials for the course are as follows:
- Plaster (with necessary mixture ratios)
- Mold making materials (silicone, rubber, soap, etc.)
- Various modeling tools (spatula, knife, sandpaper, etc.)
- Modeling surfaces (wood, plastic, metal)
- Water, mixing containers, and mixing tools
- Safety equipment (gloves, goggles, mask, etc.)
- Plaster, various rasps, chisel, square, steel ruler, various metal saw blades
<https://earsiv.anadolu.edu.tr/xmlui/bitstream/handle/11421/3601/91505.pdf?sequence=1>
<https://www.youtube.com/watch?v=cF0L8cSx6Nc>

Planned Learning Activities and Teaching Methods

- Theoretical Lectures: Basic information about plaster material, mold making, and shaping techniques will be provided. - Demonstrations: Live demonstrations will be conducted to show students how plaster shaping and mold making processes are performed. - Workshop Sessions: Students will participate in practical applications using plaster and mold materials, experiencing plaster modeling and mold casting processes. - Group Work: Students will work in small groups on plaster shaping and mold making applications, learning collaboration and group dynamics. - Feedback and Evaluation: Feedback will be provided on students' practical work to help improve their processes. - Projects: Students will create their own projects using the techniques learned throughout the course.

Recommended Optional Programme Components

- Active participation in practical sessions is crucial. - Safety precautions should always be followed. - It is beneficial to conduct literature research on plaster materials and mold making techniques. - Students are encouraged to practice working with plaster outside of class hours.

Instructor's Assistants

The course teaching assistants are faculty members who will provide support related to the course content and practical sessions. They will guide students on technical matters and contribute to their development throughout the hands-on process.

Presentation Of Course

Weekly theoretical lectures and hands-on workshop sessions. Theoretical lectures will cover basic information about plaster and mold making, while practical sessions will allow students to apply plaster shaping and mold making techniques. The course is assessed through practical exams conducted at specific intervals throughout the semester.

Dersi Veren Öğretim Elemanları

Dr. Öğr. Üyesi Serkan Tok

Program Outcomes

1. Students can learn the basic techniques of plaster shaping and model mold making.
2. Students can create simple mold systems using plaster.
3. Students can recognize and appropriately use basic materials related to plaster.
4. Students can acquire the skill to model and shape basic forms with plaster.
5. Students can plan and apply plaster mold production processes.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
1	Focus on learning about plaster material, mixture ratios, and basic shaping techniques. Practice plaster shaping applications to develop your fundamental skills. https://earsiv.anadolu.edu.tr/xmlui/bitstream/handle/11421/3601/91505.pdf?sequence=1 https://www.youtube.com/watch?v=ga_b7xH8QuQ		Theoretical Education Students acquire knowledge about basic concepts such as plaster shaping and mold making through theory.	Basic information about plaster	Simple shape creation with plaster

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
2	Focus on learning about plaster material, mixture ratios, and basic shaping techniques. Practice plaster shaping applications to develop your fundamental skills. https://earsiv.anadolu.edu.tr/xmlui/bitstream/handle/11421/3601/91505.pdf?sequence=1 https://www.youtube.com/watch?v=ga_b7xH8QuQ		Students learn plaster mold making and modeling techniques practically. They apply these techniques through various projects throughout the course.	Introduction to mold making	Basic model and mold design
3	Focus on learning about plaster material, mixture ratios, and basic shaping techniques. Practice plaster shaping applications to develop your fundamental skills. https://earsiv.anadolu.edu.tr/xmlui/bitstream/handle/11421/3601/91505.pdf?sequence=1 https://www.youtube.com/watch?v=ga_b7xH8QuQ		Students receive feedback on their work from instructors and peers, supporting their development process.	Modeling techniques	Shaping simple models with plaster
4	Focus on learning about plaster material, mixture ratios, and basic shaping techniques. Practice plaster shaping applications to develop your fundamental skills. https://earsiv.anadolu.edu.tr/xmlui/bitstream/handle/11421/3601/91505.pdf?sequence=1 https://www.youtube.com/watch?v=ga_b7xH8QuQ		Students participate in group work, developing collaboration and teamwork skills. During this process, their creativity and problem-solving abilities are enhanced.	Differences between plaster and other materials	Mold making with various materials
5	Focus on learning about plaster material, mixture ratios, and basic shaping techniques. Practice plaster shaping applications to develop your fundamental skills. https://earsiv.anadolu.edu.tr/xmlui/bitstream/handle/11421/3601/91505.pdf?sequence=1 https://www.youtube.com/watch?v=ga_b7xH8QuQ Learn about different types of molds and their applications. Perform hands-on work with mold-making materials such as silicone and rubber. Focus on your work while keeping safety precautions in mind. https://earsiv.anadolu.edu.tr/xmlui/bitstream/handle/11421/3601/91505.pdf?sequence=1 https://www.youtube.com/watch?v=ga_b7xH8QuQ		Students engage in project-based applications, applying theoretical knowledge in practice and experiencing plaster mold production under real-world conditions.	Casting techniques and model pulling	Plaster casting applications
6	Focus on learning about plaster material, mixture ratios, and basic shaping techniques. Practice plaster shaping applications to develop your fundamental skills. https://earsiv.anadolu.edu.tr/xmlui/bitstream/handle/11421/3601/91505.pdf?sequence=1 https://www.youtube.com/watch?v=ga_b7xH8QuQ Learn about different types of molds and their applications. Perform hands-on work with mold-making materials such as silicone and rubber. Focus on your work while keeping safety precautions in mind. https://earsiv.anadolu.edu.tr/xmlui/bitstream/handle/11421/3601/91505.pdf?sequence=1 https://www.youtube.com/watch?v=ga_b7xH8QuQ		Students engage in project-based applications, applying theoretical knowledge in practice and experiencing plaster mold production under real-world conditions.	Surface treatment techniques	Surface detailing and model finishing
7	Focus on learning about plaster material, mixture ratios, and basic shaping techniques. Practice plaster shaping applications to develop your fundamental skills. https://earsiv.anadolu.edu.tr/xmlui/bitstream/handle/11421/3601/91505.pdf?sequence=1 https://www.youtube.com/watch?v=ga_b7xH8QuQ Learn about different types of molds and their applications. Perform hands-on work with mold-making materials such as silicone and rubber. Focus on your work while keeping safety precautions in mind. https://earsiv.anadolu.edu.tr/xmlui/bitstream/handle/11421/3601/91505.pdf?sequence=1 https://www.youtube.com/watch?v=ga_b7xH8QuQ		Students engage in project-based applications, applying theoretical knowledge in practice and experiencing plaster mold production under real-world conditions.	Multi-part mold	Multi-part mold making and assembly

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
8	Focus on learning about plaster material, mixture ratios, and basic shaping techniques. Practice plaster shaping applications to develop your fundamental skills. https://earsiv.anadolu.edu.tr/xmlui/bitstream/handle/11421/3601/91505.pdf?sequence=1 https://www.youtube.com/watch?v=ga_b7xH8QuQ In preparation for the midterm exam, review the plaster shaping and mold-making information learned in theoretical classes. Focus on practical applications from previous weeks to prepare for the practical exam as well.		Students engage in project-based applications, applying theoretical knowledge in practice and experiencing plaster mold production under real-world conditions.	Exam preparation with course review	Midterm exam
9	Focus on learning about plaster material, mixture ratios, and basic shaping techniques. Practice plaster shaping applications to develop your fundamental skills. https://earsiv.anadolu.edu.tr/xmlui/bitstream/handle/11421/3601/91505.pdf?sequence=1 https://www.youtube.com/watch?v=ga_b7xH8QuQ Follow theoretical lessons where plaster shaping and mold-making techniques are studied in depth. Practice more complex mold applications. Focus on project work to develop your practical skills. https://earsiv.anadolu.edu.tr/xmlui/bitstream/handle/11421/3601/91505.pdf?sequence=1 https://www.youtube.com/watch?v=ga_b7xH8QuQ		Students engage in project-based applications, applying theoretical knowledge in practice and experiencing plaster mold production under real-world conditions.	Challenges encountered in the production process	Technical solutions for overcoming challenges
10	Focus on learning about plaster material, mixture ratios, and basic shaping techniques. Practice plaster shaping applications to develop your fundamental skills. https://earsiv.anadolu.edu.tr/xmlui/bitstream/handle/11421/3601/91505.pdf?sequence=1 https://www.youtube.com/watch?v=ga_b7xH8QuQ Follow theoretical lessons where plaster shaping and mold-making techniques are studied in depth. Practice more complex mold applications. Focus on project work to develop your practical skills. https://earsiv.anadolu.edu.tr/xmlui/bitstream/handle/11421/3601/91505.pdf?sequence=1 https://www.youtube.com/watch?v=ga_b7xH8QuQ		Students engage in project-based applications, applying theoretical knowledge in practice and experiencing plaster mold production under real-world conditions.	Advanced mold production methods	Application of advanced mold techniques
11	Focus on learning about plaster material, mixture ratios, and basic shaping techniques. Practice plaster shaping applications to develop your fundamental skills. https://earsiv.anadolu.edu.tr/xmlui/bitstream/handle/11421/3601/91505.pdf?sequence=1 https://www.youtube.com/watch?v=ga_b7xH8QuQ Follow theoretical lessons where plaster shaping and mold-making techniques are studied in depth. Practice more complex mold applications. Focus on project work to develop your practical skills. https://earsiv.anadolu.edu.tr/xmlui/bitstream/handle/11421/3601/91505.pdf?sequence=1 https://www.youtube.com/watch?v=ga_b7xH8QuQ		Students engage in project-based applications, applying theoretical knowledge in practice and experiencing plaster mold production under real-world conditions.	Plaster mold design and production	Advanced model and mold production with plaster
12	Focus on learning about plaster material, mixture ratios, and basic shaping techniques. Practice plaster shaping applications to develop your fundamental skills. https://earsiv.anadolu.edu.tr/xmlui/bitstream/handle/11421/3601/91505.pdf?sequence=1 https://www.youtube.com/watch?v=ga_b7xH8QuQ Follow theoretical lessons where plaster shaping and mold-making techniques are studied in depth. Practice more complex mold applications. Focus on project work to develop your practical skills. https://earsiv.anadolu.edu.tr/xmlui/bitstream/handle/11421/3601/91505.pdf?sequence=1 https://www.youtube.com/watch?v=ga_b7xH8QuQ		Students engage in project-based applications, applying theoretical knowledge in practice and experiencing plaster mold production under real-world conditions.	Mold making for mass production	Mold creation and casting for mass production
13	Focus on learning about plaster material, mixture ratios, and basic shaping techniques. Practice plaster shaping applications to develop your fundamental skills. https://earsiv.anadolu.edu.tr/xmlui/bitstream/handle/11421/3601/91505.pdf?sequence=1 https://www.youtube.com/watch?v=ga_b7xH8QuQ Follow theoretical lessons where plaster shaping and mold-making techniques are studied in depth. Practice more complex mold applications. Focus on project work to develop your practical skills. https://earsiv.anadolu.edu.tr/xmlui/bitstream/handle/11421/3601/91505.pdf?sequence=1 https://www.youtube.com/watch?v=ga_b7xH8QuQ		Students engage in project-based applications, applying theoretical knowledge in practice and experiencing plaster mold production under real-world conditions.	Importance and methods of surface treatment	Surface treatment and finishing techniques

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practise
14	Focus on learning about plaster material, mixture ratios, and basic shaping techniques. Practice plaster shaping applications to develop your fundamental skills. https://earsiv.anadolu.edu.tr/xmlui/bitstream/handle/11421/3601/91505.pdf?sequence=1 https://www.youtube.com/watch?v=ga_b7xH8QuQ Follow theoretical lessons where plaster shaping and mold-making techniques are studied in depth. Practice more complex mold applications. Focus on project work to develop your practical skills. https://earsiv.anadolu.edu.tr/xmlui/bitstream/handle/11421/3601/91505.pdf?sequence=1 https://www.youtube.com/watch?v=ga_b7xH8QuQ		Students engage in project-based applications, applying theoretical knowledge in practice and experiencing plaster mold production under real-world conditions.	Course review for final exam	General review of previous weeks
15	Focus on learning about plaster material, mixture ratios, and basic shaping techniques. Practice plaster shaping applications to develop your fundamental skills. https://earsiv.anadolu.edu.tr/xmlui/bitstream/handle/11421/3601/91505.pdf?sequence=1 https://www.youtube.com/watch?v=ga_b7xH8QuQ Review all topics of the course in preparation for the final exam. Study plaster shaping techniques and mold-making processes in depth. Complete your preparation for both theoretical and practical exams.		Students engage in project-based applications, applying theoretical knowledge in practice and experiencing plaster mold production under real-world conditions.	Final exam	Final exam Controls and evaluations of applications

Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Derse Katılım	4	3,00
Ders Sonrası Bireysel Çalışma	5	4,00
Uygulama / Pratik Sonrası Bireysel Çalışma	5	5,00
Ara Sınav Hazırlık	4	10,00
Final Sınavı Hazırlık	1	15,00
Atölye	5	15,00

Assesments

Activities	Weight (%)
Ara Sınav	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	4	2	3	3	4	2	4	3	4	4	3	3	4	4	4
L.O. 2	4	2	3	3	3	3	2	3	4	4	5	4	3	4	4
L.O. 3	3	2	3	2	4	3	3	4	5	4	4	4	3	4	3
L.O. 4	5	3	3	2	4	3	2	3	4	4	4	4	3	4	3
L.O. 5	4	3	3	2	4	3	3	4	4	4	5	4	3	4	3

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 needs 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 :** Students can learn the basic techniques of plaster shaping and model mold making.
- L.O. 2 :** Students can create simple mold systems using plaster.
- L.O. 3 :** Students can recognize and appropriately use basic materials related to plaster.
- L.O. 4 :** Students can acquire the skill to model and shape basic forms with plaster.
- L.O. 5 :** Students can plan and apply plaster mold production processes.