

General Info

Objectives of the Course

The aim of this course is to improve students' ability to design ceramic products suitable for both individual artistic production and industrial manufacturing using plaster. Students will model functional objects such as vases and teapots on the plaster lathe and learn to prepare moulds suitable for mass production. The course includes practices oriented toward both artistic expression and industrial design.

Course Contents

Students will produce symmetrical forms using the plaster lathe while also learning mould-making techniques suitable for mass production. Forms such as vases and teapots are developed for both artistic and industrial use. Students will experience the production of two-part plaster moulds, locking systems, planning of separation lines, and the design of prototypes intended for production. In the design of industrial products, considerations such as functionality, ergonomics, and mouldability will be emphasized.

Recommended or Required Reading

Plaster lathe Plaster scrapers Plaster knife Plaster rasp Mould boards Baldudak plaster Silicone support surfaces (optional) Measuring containers and mould bands for scaled production

Planned Learning Activities and Teaching Methods

Hands-on studio work Technical demonstrations Individual project development Industrial product prototyping Artistic and product evaluation presentations

Recommended Optional Programme Components

Students are recommended to attend class with aprons, safety glasses, and masks. Due to the fast setting nature of plaster, time-sensitive work discipline is essential. While working with industrial production logic, students are also expected to consider aesthetic values.

Instructor's Assistants

Teaching assistants provide technical support and guidance during moulding processes, especially for industrial product applications, and supervise students' production stages.

Presentation Of Course

The course is delivered face-to-face in a studio environment through weekly practical sessions. Students enhance both their manual skills and product development capabilities through practice-based learning.

Dersi Veren Öğretim Elemanları

Dr. Öğr. Üyesi Serkan Tok

Program Outcomes

1. Can model basic ceramic forms symmetrically using a plaster lathe.
2. Can evaluate and model functional ceramic objects such as vases and teapots from both aesthetic and technical perspectives.
3. Can plan and apply appropriate separation surfaces to create two-part plaster moulds.
4. Can develop prototype designs and prepare production-oriented moulds for both artistic and industrial products.
5. Can design and produce a functional industrial ceramic product suitable for mass production using plaster forming techniques.

Weekly Contents

Order	PreparationInfo	Laboratory	TeachingMethods	Theoretical	Practical
1	Review course materials and references Read about mixing ratios and setting times https://dergipark.org.tr/tr/download/article-file/3491048 (s.115-124) https://dergipark.org.tr/tr/download/article-file/1578743 (s.60-62) https://earsiv.anadolu.edu.tr/xmlui/bitstream/handle/11421/26687/681751.pdf?sequence=1&isAllowed=y (s.22-24) https://acikbilim.yok.gov.tr/bitstream/handle/20.500.12812/611996/yokAcikBilim_10181365.pdf?sequence=-1 (s.9-24)		Demonstration-based teaching and individual guidance	History and applications of plaster forming. Types and properties of plaster	Mixing using plaster introduced & material overview
2	Review course materials and references Read about mixing ratios and setting times https://dergipark.org.tr/tr/download/article-file/3491048 (s.115-124) https://dergipark.org.tr/tr/download/article-file/1578743 (s.60-62) https://earsiv.anadolu.edu.tr/xmlui/bitstream/handle/11421/26687/681751.pdf?sequence=1&isAllowed=y (s.22-24) https://acikbilim.yok.gov.tr/bitstream/handle/20.500.12812/611996/yokAcikBilim_10181365.pdf?sequence=-1 (s.9-24)		Demonstration-based teaching and individual guidance	History and applications of plaster forming. Types and properties of plaster	Mixing using plaster introduced & material overview
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4	Review course materials and references Read about mixing ratios and setting times https://dergipark.org.tr/tr/download/article-file/3491048 (s.115-124) https://dergipark.org.tr/tr/download/article-file/1578743 (s.60-62) https://earsiv.anadolu.edu.tr/xmlui/bitstream/handle/11421/26687/681751.pdf?sequence=1&isAllowed=y (s.22-24) https://acikbilim.yok.gov.tr/bitstream/handle/20.500.12812/611996/yokAcikBilim_10181365.pdf?sequence=-1 (s.9-24) Watch videos about using the plaster lathe. Sketch and design different vase forms		Demonstration-based teaching and individual guidance	Basics of modeling with plaster lathe. Technical and aesthetic analysis of vase forms	Vase forms on the cylindrical work on the lathe

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8	Review course materials and references Read about mixing ratios and setting times https://dergipark.org.tr/tr/download/article-file/3491048 (s.115-124) https://dergipark.org.tr/tr/download/article-file/1578743 (s.60-62) https://earsiv.anadolu.edu.tr/xmlui/bitstream/handle/11421/26687/681751.pdf?sequence=1&isAllowed=y (s.22-24) https://acikbilim.yok.gov.tr/bitstream/handle/20.500.12812/611996/yokAcikBilim_10181365.pdf?sequence=-1 (s.9-24) Midterm exam		Demonstration-based teaching and individual guidance	Midterm exam	Midte
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10	Review course materials and references Read about mixing ratios and setting times https://dergipark.org.tr/tr/download/article-file/3491048 (s.115-124) https://dergipark.org.tr/tr/download/article-file/1578743 (s.60-62) https://earsiv.anadolu.edu.tr/xmlui/bitstream/handle/11421/26687/681751.pdf?sequence=1&isAllowed=y (s.22-24) https://acikbilim.yok.gov.tr/bitstream/handle/20.500.12812/611996/yokAcikBilim_10181365.pdf?sequence=-1 (s.9-24) Surface treatment techniques for teapot and vase forms Exercises for smoothing model surfaces		Demonstration-based teaching and individual guidance	Smoothing model surfaces and final touches Possible problems in mould removal	Final a on mc Post-c finishi cleani
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12	Review course materials and references Read about mixing ratios and setting times https://dergipark.org.tr/tr/download/article-file/3491048 (s.115-124) https://dergipark.org.tr/tr/download/article-file/1578743 (s.60-62) https://earsiv.anadolu.edu.tr/xmlui/bitstream/handle/11421/26687/681751.pdf?sequence=1&isAllowed=y (s.22-24) https://acikbilim.yok.gov.tr/bitstream/handle/20.500.12812/611996/yokAcikBilim_10181365.pdf?sequence=-1 (s.9-24) Read about techniques for fixing surface defects.Prepare materials for finishing stages		Demonstration-based teaching and individual guidance	Mould removal techniques and final checks of the modelMethods for fixing defects on plaster surfaces	Moulc final a Comp finishi
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Workload

Activities	Number	PLEASE SELECT TWO DISTINCT LANGUAGES
Vize	3	4,00
Final	3	4,00
Uygulama / Pratik	3	7,00
Ders Öncesi Bireysel Çalışma	3	7,00
Ders Sonrası Bireysel Çalışma	3	7,00
Uygulama / Pratik Sonrası Bireysel Çalışma	3	7,00

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	5	3	4	2	3	3	3	2	2	1	5	3	2	3	3
L.O. 2	5	3	4	2	3	3	3	2	2	1	5	3	2	3	3
L.O. 3	4	3	4	2	3	3	4	2	2	1	5	3	2	3	3
L.O. 4	4	3	4	2	3	3	4	2	2	2	5	3	2	3	3
L.O. 5	5	3	4	2	3	4	5	2	2	1	5	3	2	3	3

Table :

- P.O. 1 :** Sanat, tasarım ve seramik alanına yönelik donanımına sahip olma ve edindiği bilgileri uygulama becerisi
- P.O. 2 :** Araştırma, deneyimleme, analiz, değerlendirme ve yorumlama becerisi
- P.O. 3 :** Seramik alanının gerektirdiği kısıtlamaları göz önünde bulundurarak, ortaya konan sorun ve gereksinimleri karşılayacak bir ürünü/yapıtı ya da süreci tasarlama ve yaratma becerisi
- P.O. 4 :** Kendi alanını diğer disiplinlerle ilişkilendirerek bireysel ve grup içinde çalışma becerisi
- P.O. 5 :** Sanat ve tasarım sorunlarını belirleme, tanımlama ve çözme becerisi
- P.O. 6 :** Fikir ve sanat eserleri alanlarında mesleki ve etik sorumluluk bilinci
- P.O. 7 :** Etkin iletişim kurma ve kendini ifade edebilme becerisi
- P.O. 8 :** Sanat/tasarım çözümlemelerinin, evrensel ve toplumsal boyutlarda etkilerini anlamak için gerekli genişlikte eğitim
- P.O. 9 :** Yaşam boyu öğrenmenin gerekliliği, bilinci ve bunu gerçekleştirebilme becerisi
- P.O. 10 :** Çağın sorunları hakkında kendini geliştirebilme bilinci
- P.O. 11 :** Sanat ve tasarım uygulamaları için gerekli olan teknikleri ve yenilikleri kullanma becerisi
- P.O. 12 :** Araştırma yönü kuvvetli, teknolojik gelişmeleri takip eden ve alanına adapte edebilme bilinci
- P.O. 13 :** Sanat ve tasarım bilincini toplumla paylaşarak sosyal, kültürel ve toplumsal sorumlulukları kavrama, benimseme bilinci
- P.O. 14 :** Yaratıcılık sürecinde mesleki özgüvenle birlikte kavramsal bilgi birikimi ve becerileri pekiştirme bilinci
- P.O. 15 :** Sanatı ve tasarımı toplumsal bir sorumluluk boyutunda kavrayan ve alanına yönelik uluslararası gelişmeleri takip eden bireyler yetiştirmek
- L.O. 1 :** Alçı tornası ile temel seramik formlarını simetrik şekilde modelleyebilir.
- L.O. 2 :** Vazo ve çaydanlık gibi işlevsel seramik objeleri estetik ve teknik açıdan değerlendirebilir ve modelleyebilir.
- L.O. 3 :** İki parçalı alçı kalıpları oluşturmak için uygun ayırma yüzeylerini planlayabilir ve uygulayabilir.
- L.O. 4 :** Sanatsal ve endüstriyel ürünler için prototip tasarımları geliştirerek, üretime yönelik kalıplar hazırlayabilir.
- L.O. 5 :** Alçı şekillendirme tekniklerini kullanarak, seri üretime uygun fonksiyonel bir endüstriyel seramik ürünü tasarlayıp üretebilir.