Course Syllabus

Code - Course Title	**GTÜ210 - Çini Material and Firing Technology**
Course Type	IV. SEMESTER
Laboratory + Practice	2+2
ECTS	**4.0**
Language of Instruction	Türkçe
Course Type	Required Courses
Course Instructor(s)	ARAŞ. GÖR. ÖZGE TAN

Mode of Delivery	The mode of delivery of this course is face to face.
Prerequisites	There is no prerequisite or co-requisite for this course.
Courses Recomended	There are no other recommended courses related to this course.

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Introduction to Çini and ceramic materials, basic concepts	
Week - 2		Structure of Çini clay , raw materials and their properties	
Week - 3		Clay preparation methods and basic shaping techniques	
Week - 4		Drying processes and bisque firing (first firing) rules	
Week - 5		Chemical structure of Çini glazes and basic components	
Week - 6		Glaze preparation methods and characteristic differences between glazes	
Week - 7		Midterm Exam (Practice Exam)	
Week - 8		Material selection for painting techniques (underglaze, overglaze)	
Week - 9		Types, structure, and working principles of Çini kilns	
Week - 10		Kiln loading (stacking) techniques and points to consider	
Week - 11		Firing curves (regimes), temperature measurement and kiln atmosphere	
Week - 12		Glaze firing process and kiln cooling stages	
Week - 13		Firing defects, glaze flaws (crazing, running, crawling) and analysis	
Week - 14		End of term kiln opening, product evaluation and defect solutions	

Learning Outcomes

#	Learning Outcome
1	Defines the raw materials, bisque structure, and glaze components used in Çini art with their chemical and physical properties.
2	Applies clay preparation, drying, and bisque firing processes in the workshop environment in accordance with the appropriate technique.
3	Prepares traditional and modern Çini glazes and selects glazes and materials suitable for different painting techniques, such as underglaze and overglaze.
4	Understands the working principles of Çini kilns, loading rules, and firing curves, and manages the firing process competently.
5	Analyzes firing and glaze defects that may occur during the production process and develops scientific and technical solutions for these problems.

Sustainable Development Goals

No content has been provided.

Course Theme

No content has been provided.

AKTS Workload

Activity	Duration (Hour)	Count	Workload
Teorik Derse Katılım	0	0	0
Sınıf Dışı Çalışma (Ön Hazırlık & Pekiştirme Amaçlı)	0	0	0
Ödevler	0	0	0
Proje - Rapor - Sunum Hazırlama	0	0	0
Ara Sınav Hazırlığı (sınav süresi dahil)	0	0	0
Final Sınavı Hazırlığı (sınav süresi dahil)	0	0	0
Uygulama (Laboratuvar, Müzik/Enstrüman Uygulaması, Atölye/Saha Çalışması vb.)	0	0	0
Staj Uygulaması	0	0	0
		Calculated ECTS	**0**

Assessment Method and Passing Requirements

No content has been provided.