Course Syllabus

Code - Course Title	**GTÜ407 - Natural Dye Production and Color Theory**
Course Type	VII. SEMESTER
Laboratory + Practice	3+1
ECTS	**4.0**
Language of Instruction	Türkçe
Course Type	Area Elective Courses
Course Instructor(s)	ARAŞ. GÖR. DR. MERVE ÖZCAN

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 is no recommended optional programme component for this course.

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Introduction to color knowledge and theory, color wheel.	
Week - 2		The language and symbolism of colors in traditional Turkish arts.	
Week - 3		Historical development of natural dyeing and basic materials.	
Week - 4		Natural dye sources: Vegetal, animal, and mineral dyes.	
Week - 5		Collecting dye plants from nature, drying, and storing.	
Week - 6		Preparation before dyeing: Cleaning of fibers, yarns, and fabrics.	
Week - 7		Midterm Exam (Studio Practice).	
Week - 8		Mordanting techniques and the use of mordant substances.	
Week - 9		Obtaining red color tones with madder and insect dyes.	
Week - 10		Obtaining blue color tones with woad (indigo) and other plants	
Week - 11		Obtaining yellow color tones with buckthorn, weld, and chamomile.	
Week - 12		Creating secondary colors (green, orange, purple) by mixing primary colors.	
Week - 13		Fastness (light, washing, rubbing) tests and quality control.	
Week - 14		Natural pigment preparation for illumination, miniature, and marbling arts.	

Learning Outcomes

#	Learning Outcome
1	Understands the fundamentals of color theory and the symbolism of color in traditional Turkish arts, including their historical development.
2	Identifies, collects, and properly preserves the plants, insects, and minerals used to produce natural dyes for the dyeing process.
3	Dyes weaving materials such as fabric and yarn using mordanting and boiling methods to produce primary and intermediate colors.
4	Formulates the natural colors it produces to meet the requirements for ground or paint in traditional art forms such as ebru, calligraphy, and miniature painting.
5	Gains knowledge of materials that is vital for the restoration of historic textiles or paper artifacts by learning about environmentally friendly natural dye production processes.

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.