Course Syllabus

Code - Course Title	**CAM309 - Applications of Glass Technology I**
Course Type	V. SEMESTER
Laboratory + Practice	2+2
ECTS	**4.0**
Language of Instruction	Türkçe
Course Type	Required Courses
Course Instructor(s)	DOÇ. DR. GÖKTUĞ GÜNKAYA

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.
Recommended Resources	Shelby, J. E. (1997) Introduction to Glass Science and Technology. UK: The Royal Society of Chemistry.
Work Placement	N/A

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Introduction to glass science, different types of glass: pure silica glass, alkali-silicate glasses	
Week - 2		Soda-lime-silica glasses, lead based glasses	
Week - 3		Boron-silicate glasses, alumina-silicate glasses, phosphate glasses	
Week - 4		Germania glasses, halogen based glasses, chalcogenide glasses, organic glasses, metalic glasses	
Week - 5		Theories for glass formation	
Week - 6		Theories for glass formation	
Week - 7		Raw materials and their properties	
Week - 8		Raw materials and their properties	
Week - 9		Glass batch calculations	
Week - 10		Types of glass	
Week - 11		Glass formation techniques	
Week - 12		Glass formation techniques	
Week - 13		Heat treatment of glass, applications of glass	

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 14		Heat treatment of glass, applications of glass	

Learning Outcomes

#	Learning Outcome
1	explain glass structure by fundamentals of glass formation in glass science, effects of atoms which are forming these.
2	determine main glass formers and glass structures.
3	solve glass batch calculations.
4	classify glass melting methods.

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.