Course Syllabus

Code - Course Title	**CAM203 - Glass Technology I**
Course Type	III. SEMESTER
Laboratory + Practice	3+2
ECTS	**6.0**
Language of Instruction	Türkçe
Course Type	Required Courses
Course Instructor(s)	PROF. DR. SELVİN YEŞİLAY

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	Hlavac, J.,Glass Science and Technology, Elseiver Scientific Publishing Company, 1983. Karasu, B. ve Ay, N., Cam Teknolojisi, Milli Eğitim Bakanlığı Yayınları, No 3525, Milli Eğitim Basımevi, Ankara 2000. Shelby, J. E., Cam Bilimi ve Teknolojisine Giriş, The Royal Society of Chemistry, 1997. Karasu, B. ve Ay, N., Cam Teknolojisi, Milli Eğitim Bakanlığı Yayınları, No 3525, Milli Eğitim Basımevi, Ankara 2000. Shelby, J. E., Cam Bilimi ve Teknolojisine Giriş, The Royal Society of Chemistry, 1997.
Work Placement	N/A

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Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Introduction to glass science, oxides used in silicate based glasses and their overall properties	
Week - 2		Oxides used in silicate-based glasses and their overall properties	
Week - 3		Oxides used in silicate-based glasses and their overall properties	
Week - 4		Oxides used in silicate-based glasses and their overall properties	
Week - 5		Oxides used in silicate-based glasses and their overall properties	
Week - 6		Oxides used in silicate-based glasses and their overall properties	
Week - 7		Different types of glasses: pure silica glass, alkali-silicate glasses	
Week - 8		Soda-lime-silica glasses, lead-based glasses	
Week - 9		Boron-silicate glasses, alumina-silicate glasses, phosphate-based glasses	
Week - 10		Raw materials and their properties	
Week - 11		Raw materials and their properties	

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Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 12		Raw materials and their properties	
Week - 13		Glass batch calculations	
Week - 14		Glass batch calculations	

Learning Outcomes

#	Learning Outcome
1	gain the basic knowledges about structural and chemical composition of silicate based glasses.
2	value why starting raw materials and the whole production process are so important.
3	understand the effects of the relationships between chemical compositon -process parameters on the determination of final product.
4	Defines glass as material and has knowledge about glass microstructure

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.