Course Syllabus

Code - Course Title	**CAM524 - Applications of Functional Glasses II**
Course Type	II. SEMESTER
Laboratory + Practice	2+2
ECTS	**6.0**
Language of Instruction	Türkçe
Course Type	Elective Courses
Course Instructor(s)	DOÇENT MEHMET AYDIN

Mode of Delivery	This course is delivered exclusively through face-to-face instruction.
Place of Delivery	On Campus
Used Educational Platforms	Face-to-face
Prerequisites	There is no prerequisite or co-requisite for this course.
Courses Recomended	Prior completion of the Functional Glasses and Applications I course is recommended.
Recommended Resources	Cummings, K. (2009). Contemporary kiln-formed glass. A&C Black.Doremus, R. H. (1994). Glass science (2nd ed.). Wiley.Shelby, J. E. (2005). Introduction to glass science and technology (2nd ed.). Royal Society of Chemistry.Varshneya, A. K., & Mauro, J. C. (2019). Fundamentals of inorganic glasses (3rd ed.). Elsevier.
Work Placement	Not applicable.
Aims of the Course	The aim of this course is to develop students' knowledge and skills regarding the physical and chemical properties, production methods and applications of functional glasses, and to enable them to evaluate the potential uses of functional glasses in art and design and develop original applications through research and experimental practices.

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1	**LO-1** **LO-2**	Determination of the intended use of the functional glass product and research on the project topic	Discussion, Research and Inquiry
Week - 2	**LO-1** **LO-2**	Development of design ideas and alternative designs within the scope of the project	Brain Storming, Proje Design/Management
Week - 3	**LO-2** **LO-3**	Refinement of the design and selection of materials and application methods	Discussion, Proje Design/Management
Week - 4	**LO-3**	Initiation of practical work within the scope of the project	Practice/Practical Work/Workshop
Week - 5	**LO-3**	Continuation of practical work using the selected materials and techniques	Practice/Practical Work/Workshop
Week - 6	**LO-3**	Review of the practical process, identification and evaluation of technical problems	Problem Solving, Critique/Critical Reading
Week - 7	**LO-3**	Improvement of practical work based on technical evaluations	Problem Solving, Practice/Practical Work/Workshop

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Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 8	LO-2 LO-3	Technical and aesthetic evaluation of practical outcomes	Discussion, Critique/Critical Reading
Week - 9	LO-4	Preparation of the project presentation and research report	Proje Design/Management, Research and Inquiry
Week - 10	LO-3	Further development of project applications and resolution of identified shortcomings	Problem Solving, Practice/Practical Work/Workshop
Week - 11	LO-3 LO-4	Completion of project applications and evaluation of final products	Discussion, Practice/Practical Work/Workshop
Week - 12	LO-4	Evaluation of the exhibition design and preparation of the project presentation	Discussion, Proje Design/Management
Week - 13	LO-4	Completion of exhibition preparations and submission of the project report	Proje Design/Management, Practice/Practical Work/Workshop
Week - 14	LO-4	Presentation of project outcomes and overall evaluation	Discussion, Critique/Critical Reading

Learning Outcomes

#	Learning Outcome
1	Investigates and evaluates the potential uses of functional glasses in art and design.
2	Develops original art projects involving the use of functional glasses.
3	Identifies and applies materials, methods and techniques appropriate to the art project developed.
4	Documents the research and practical processes in a report and presents the project outcomes.

Sustainable Development Goals

✓ Quality Education ✓ Industry, Innovation and Infrastructure ✓ Responsible Production and Consumption

Course Theme

✓ Media, Design and Creative Arts ✓ Innovation Skills

AKTS Workload

Activity	Duration (Hour)	Count	Workload
Teorik Derse Katılım	2.00	14	28
Sınıf Dışı Çalışma (Ön Hazırlık & Pekiştirme Amaçlı)	3.00	14	42

AKTS Workload

Activity	Duration (Hour)	Count	Workload
Ödevler	0.00	0	0
Proje - Rapor - Sunum Hazırlama	12.00	3	36
Ara Sınav Hazırlığı (sınav süresi dahil)	6.00	1	6
Final Sınavı Hazırlığı (sınav süresi dahil)	10.00	1	10
Uygulama (Laboratuvar, Müzik/Enstrüman Uygulaması, Atölye/Saha Çalışması vb.)	2.00	14	28
Staj Uygulaması	0.00	0	0
		Calculated ECTS	**6.0**

Assessment Method and Passing Requirements

✓ Performance Assessment (Individual/Panel-Based) ✓ Project ✓ Homework ✓ Presentation

Community Service Activity

This course does not include any Community Service activities.