Course Syllabus

Code - Course Title	**ÇYA509 - Musical Instrument Acoustics**
Course Type	II. SEMESTER
Laboratory + Practice	3+0
ECTS	**6.0**
Language of Instruction	Türkçe
Course Type	Required Courses
Course Instructor(s)	EMİR DEĞİRMENLİ

Mode of Delivery	This course will online and face-to-face training.
Prerequisites	There is no prerequisite or co-requisite for this course.
Courses Recomended	There are no lessons related with the suggested lesson.
Recommended Resources	There is no compulsory source. The required materials will be provided to the students.
Work Placement	This is not appropriate for the course.

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Instrument Acoustics Technologies	
Week - 2		Acoustic Analysis Methods	
Week - 3		Modal Analysis Methods	
Week - 4		Chladni Analysis	
Week - 5		FTT (Fast Fourier Transform) Analysis Methods	
Week - 6		Traveling hammer test	
Week - 7		Finite Element Analysis	
Week - 8		Sound Radiation Analysis Methods	
Week - 9		Sound Elasticity and Gravity Analysis Methods	
Week - 10		Determination of Final Project or Article	
Week - 11		Sound Spectrum Analysis Methods	
Week - 12		Instrument Acoustic Design	
Week - 13		Sound Plate Optimization, Helmholtz Resonance	
Week - 14		Final Paper/Project Presentation	

Learning Outcomes

#	Learning Outcome
1	Having knowledge about innovator & traditional methods.
2	Have knowledge about instrument acoustic
3	Having knowledge about developing technologies.
4	Contributing to the project by using interdisciplinary design methods.
5	Contributing to the project by using the possibilities of developing technology.

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.