

Loudspeaker system

Course information

ECTS: 3	Independent from the master in Acoustics	Course code :
Lecture: 10h	Tutorial classes: none	Practical work : 24h

Course coordinator : Bruno Gazengel

Course Description

Aim

The aim of this course is model and measure usual loudspeaker systems (sealed enclosure, vented enclosure).

Prerequisite

[Acoustics experiments refresh](#), [Electronics refresh](#), [Instrumentation refresh](#), [Transducers basics](#)

Contents

- * Lectures: lumped elements modelling of usual loudspeaker systems (sealed enclosure, vented enclosure)
- * Practical works:
 - * Measurement of the characteristics of a soundchain
 - * Acoustical and mechanical systems
 - * Loudspeaker parameter measurement
 - * Mini project: loudspeaker system simulation and characterization

Literature

- * Leo L. Beranek, Tim Mellow, sound fields and transducers, Academic Press, 2012
- * Mendel Kleiner, Electroacoustics, Taylor & Francis, 2013

Examination duration

2 hours

Examination type



Practical work