Loudspeaker system

Course information

<table>
<thead>
<tr>
<th>ECTS: 3</th>
<th>Independent from the master in Acoustics</th>
<th>Course code:</th>
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<tbody>
<tr>
<td>Lecture: 10h</td>
<td>Tutorial classes: none</td>
<td>Practical work: 24h</td>
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</tbody>
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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

  * Mendel Kleiner, Electroacoustics, Taylor & Francis, 2013

Examination duration

2 hours

Examination type
Practical work