Institut d'Acoustique Graduate School
Le Mans Université

Faculté des Sciences & Techniques
Le Mans Université

MASTER in Acoustics

Specialisation Environmental Acoustics: Transport, Buildings, City (AETBC)

LE MANS UNIVERSITÉ – Le Mans – Laval – www.univ-lemans.fr

PRESENTATION

Reducing noise from means of transport, particularly in urban areas, is an increasingly important environmental acoustics and social problem. These nuisances affect all those involved in acoustics: the individual as consumer and user, with an impact on the sale of certain consumer goods; society, organized into associations to defend and combat noise; local and regional authorities; equipment manufacturers and infrastructure managers.

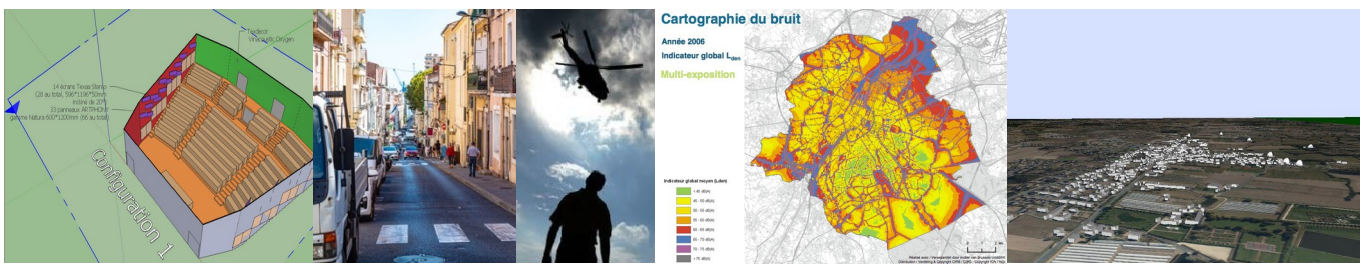
The Acoustics of the Environment: Transport, Buildings, City (AETBC) course, part of the Acoustics Master's program at Le Mans Université, trains acousticians to engineer level, specializing in noise reduction and improving sound comfort in transport and living environments (buildings, environment).

Graduates of this course are scientists who also have training in disciplines that may fall within the human and social sciences (legal aspects of noise, role of local and regional authorities in noise-related neighborhood conflicts, physiology of the ear, psychoacoustics, etc.).

Courses are taught partly by the teaching staff of the Laboratoire d'Acoustique at the University of Le Mans, and mainly by outside professionals, including the Unité Mixte de Recherche en Acoustique Environnementale (UMRAE) at the Gustave Eiffel University, which hosts students for three weeks of delocalized courses at its sites in Nantes, Lyon and Strasbourg.

This training program, unique in France and Europe, is steered by a committee of engineers and professionals from industry and major organizations, who oversee the content and direction of the course.

This course is open to both initial and work-linked training.



CAREER OPPORTUNITIES

The vocation of graduates is to provide expertise and advice. They are thus able to take part in drawing up acoustic specifications and noise maps, suggest design solutions (predictive acoustics), improve the acoustic quality of existing products or structures with a view to sustainable development, and act as intermediaries between the various players involved in transport acoustics.

This Master's degree enables students to enter the job market with a bac. +5 diploma, working as acoustics engineers in design offices, companies (public or private) or public research establishments in the following fields:

- Transport: road, rail, naval, aeronautics
- Environment-related industrial infrastructures
- Buildings, auditoriums

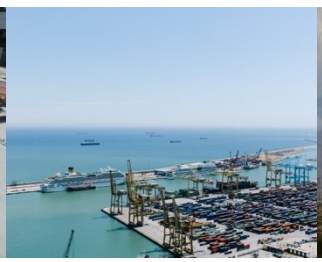
SPECIFIC COURSES IN 2ND YEAR

The AETBC program includes a combination of fundamental, applied and professional courses in environmental acoustics. It culminates in a 5-6 month professional internship.

Courses

Perception, psychoacoustics (2.5 ECTS)
Numerical Methods for Acoustics (2.5 ECTS)
Physiological Acoustics (2.5 ECTS)
Numerical Practical Work in Vibroacoustics (2.5 ECTS)
Experimental Methods (2.5 ECTS)
Case studies (5 ECTS)
Legal Aspects of Noise (2.5 ECTS)
Off-site teaching (7.5 ECTS)
(Université Gustave Eiffel – Nantes, Bron and Strasbourg sites)
English (2.5 ECTS)
Professional courses (2.5 ECTS)
Professional internship (27.5 ECTS)



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For further informations: https://iags.univ-lemans.fr/fr/nos-formations/bac-1-a-bac-8-en-acoustique.html