

				Aeroacoustics	Engineering acoustics	Vibrations	Ultrasound
<i>Mandatory course</i>							
Advanced acoustics (Acoustics: sources and propagation)	MoD 7.3 - V. Clair / D. Dragna, Tuesday 14h-16h INSA-CM1 - L. Maxit (1st semester)	ECL INSA	(english) (french)	•	•	•	•
<i>List of unit teaching</i>							
Environmental acoustics	MoD 1.6 - M.A. Galland / D. Dragna, Friday 15h45-17h45	ECL	(english)	•	•		•
Aeroacoustics	MoD 7.5 - M. Roger, Friday 13h30-15h30	ECL	(english)	•			
Active control of noise and vibrations	MoS 1.4 - M. Ichchou / M.A. Galland, Friday 8h-12h15	ECL	(english)	•	•	•	•
Transportation noise	MoS 1.2 - M. Ichchou / D. Juvé / D. Dragna, Wednesday 8h-12h15	ECL	(english)	•	•	•	
Fluid - structure interactions	MoD 8.1 - M. Ichchou / G. Robert, Monday 8h-10h	ECL	(english)	•	•	•	
Propagation of elastic waves	MoD 3.1 - L. Jézequel / S. Besset, Monday 8h-10h	ECL	(french)			•	
Introduction to nonlinear vibrations	MoD 1.5 - J. Perret-Liaudet / F. Thouverez, Friday 13h30-15h30	ECL	(english)			•	
Structural dynamics	MoD 7.4 - O. Dessombz / L. Jézequel, Tuesday 16h15-18h15	ECL				•	
Building acoustics	ENTPE-BA - C. Marquis-Favre - from Sept. (term)	ENTPE	(english)		•		
Sound perception	INSA-CM2 - E. Parizet	INSA	(english)		•		•
Sound structure radiation	INSA-CM3 - B. Laulagner	INSA	(english)			•	
Transportation noise	INSA-CM4 - E. Parizet	INSA	(english)	•	•	•	
Ultrasound imaging	UCBL-UI - S. Catheline (master ISM) - 1st semester	Lyon 1	(english)				•
Ultrasound applications	INSA-CM5 - P. Guy	INSA	(english)				•
Physics of turbulent flows	MoD 1.4 - C. Bailly / C. Bogey / D. Dragna / V. Clair, Tuesday 16h15-18h15	ECL	(english)	•			
External aerodynamics	MoD 5.6 - J. Boudet / J. Scott, Friday 15h45-17h15	ECL	(english)	•			
Numerical simulation of flows	MoD 1.1 - C. Corre / F. Godeferd, Monday 8h-10h	ECL	(english)	•			
Dynamic of biological human systems	MoD 6.6 - L. Blanc / D. Dragna, Friday 15h45-17h45	ECL	(french)				•
System identification and sparse decompositions	MoD 3.4 - J. Huillery / L. Bako, Tuesday 16h15-18h15	ECL	(french)		•		
Numerical methods for acoustics	CeLyA-CA - D. Dragna / V. Clair, Thursday 14h-18h	ECL	(english)	•	•	•	•
Physical problems in unbounded media: math. analysis and numerics	MoS 5.3 - G. Vial	ECL	(english)	•	•		
Adaptive Filtering: Application to Active Noise Control	ELC D-2 - L. Bako / M.-A. Galland / S. Le Beux, S8 Wednesday 8h00-12h15	ECL	(english)	•	•		
Musical Acoustics	ELC F-4 - S. Ollivier / M. Roger, S8 Friday 8h00-12h15	ECL	(french)		•	•	

Engineering student at ECL: your cursus must be composed of 6 teaching units, including the common course Advanced acoustics.

Student enrolled in the full second year program: your cursus must be composed of 7 teaching units, including the common course Advanced acoustics.