Program	59AE – M.Sc. in Acoustic Engineering

Course code and name	
Code	595210162
Name	Room Acoustics CF
Semester	S7 [(September-January)]

Credits and contact hours	
ECTS Credits	3
Contact hours	30

Coordinator's name	Pedrero González, Antonio [antonio.pedrero@upm.es]

Specific course information	
Tuition language	Spanish
Description of course content	
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List of topics to be covered	
1. Introduction to architectural acoustics 2. Sound waves in rooms 3. Statistical room acoustics 4. Geometrical room acoustics 5. Introduction to room acoustical design Lab sessions: 1. Room modes 2. Reverberation Time measurements 3. Measurement of room acoustics parameters.	
Prerequisites or co-requisites	
– Waves Propagation – Audiovisual Systems – Sound and Image Fundamentals – Acoustic Engineering	
Course category in the program	
☐ R (required)	**☐ E (elective)** *(elective courses may not be offered every year)* **☑ CF (complementary training for Master students)**

Specific goals for the course
Specific outcomes of instruction
• CE SI04 Ability to carry out acoustic engineering projects on: acoustic isolation and acoustic conditioning, PA installations; specification, analysis and selection of electroacoustic transductors; measurement, analysis and noise and vibration control systems; environmental acoustics; underwater acoustics systems. • CG 04 Ability to abstract, analyze, and synthesize, and to solve problems. • CG 10 Ability to handle specifications, rules and regulations and to apply them in the practice of the profession. • CG 13 Learning skills with a high degree of autonomy.

Further reading and supplementary materials
– Moodle.

Teaching methodology			
_X_ **lectures**	_X_ **problem solving sessions**	_X_ **collaborative actions**	_X_ **laboratory sessions**
Other:			