Acoustics and Psychoacoustics

Module Information

2022.01, Approved

Summary Information

Module Code	4506IABCMP
Formal Module Title	Acoustics and Psychoacoustics
Owning School	Liverpool Screen School
Career	Undergraduate
Credits	10
Academic level	FHEQ Level 4
Grading Schema	40

Teaching Responsibility

LJMU Schools involved in Delivery
LJMU Partner Taught

Partner Teaching Institution

Institution Name
Institute of the Arts Barcelona

Learning Methods

Learning Method Type	Hours
Lecture	59

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
SEP-PAR	PAR	September	28 Weeks

Aims and Outcomes

Aims	The aim of the module is to provide the students with a broad and clear understanding of the fundamentals of acoustics and psychoacoustics in the context of audio and music production.

After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Describe and demonstrate knowledge and understanding of the fundamental concepts and theories of acoustics and psychoacoustics.
MLO2	2	Discuss research in the field of acoustics and psychoacoustics in relation to music production and music theory.

Module Content

Outline Syllabus	The module examines the principles of acoustic energy transmission, the nature of sound and its characteristics. These characteristics are studied in relation to the human perception of sound, music theory and the technology involved in music production. The module also provides the student with an understanding of the human auditory system and the process involved in the perception and interpretation of sound. The learning is supported by practical examples, listening exercises, analysis, empirical evidence and independent research relating to personal interests of the student in the field of music.
Module Overview	
Additional Information	The module introduces students to key acoustic techniques and practices. Assessment is via exam.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Exam	Exam	100	1.5	MLO1, MLO2

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Andrew Sherlock	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings