

## Liverpool John Moores University

Warning: An incomplete or missing proforma may have resulted from system verification processing

Title: ACOUSTICS AND PSYCHOACOUSTICS  
Status: Definitive  
Code: **4506IABCMP** (128926)  
Version Start Date: 01-08-2021  
  
Owning School/Faculty: Liverpool Screen School  
Teaching School/Faculty: Institute of the Arts Barcelona

Team	Leader
Andrew Sherlock	Y

**Academic Level:** FHEQ4      **Credit Value:** 10      **Total Delivered Hours:** 60  
**Total Learning Hours:** 100      **Private Study:** 40

### Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	58.5

**Grading Basis:** 40 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	AS1	A combination of multi choice and short question answers - 1 hour and a half.	100	1.5

### 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.*

### Learning Outcomes

After completing the module the student should be able to:

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

### **Learning Outcomes of Assessments**

The assessment item list is assessed via the learning outcomes listed:

Exam	1	2
------	---	---

### **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.*

### **Learning Activities**

The module will be delivered through weekly lectures supported by in class activities, presentations and group exercises.

### **Notes**

The module introduces students to key acoustic techniques and practices. Assessment is via exam.