

AUDI90015 Acoustics

Credit Points:	6.25
Level:	9 (Graduate/Postgraduate)
Dates & Locations:	2010, Parkville This subject commences in the following study period/s: February, Parkville - Taught on campus.
Time Commitment:	Contact Hours: 30 hours of lectures, tutorials and practical sessions. Total Time Commitment: 50 hours
Prerequisites:	Nil
Corequisites:	Nil
Recommended Background Knowledge:	N/A
Non Allowed Subjects:	N/A
Core Participation Requirements:	For the purposes of considering request for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Students Experiencing Academic Disadvantage Policy, academic requirements for this subject are articulated in the Subject Description, Subject Objectives, Generic Skills and Assessment Requirements of this entry. The University is dedicated to provide support to those with special requirements. Further details on the disability support scheme can be found at the Disability Liaison Unit website : http://www.services.unimelb.edu.au/disability/
Coordinator:	Mr Dominic Power
Contact:	Ms Angela Marshall amarshal@unimelb.edu.au
Subject Overview:	This subject explores the physics of the generation, propagation and measurement of sound.
Objectives:	On completion of this subject, students should: <ul style="list-style-type: none"> # Understand the physical parameters of sound (intensity, frequency, period and phase). # Understand the concept of the decibel and be able to convert sound pressure and intensity levels to decibels and vice versa. # Understand complex waves and resonance, and how these concepts relate to filters and speech acoustics. # Understand sound transmission and room acoustics, and be able to measure sound levels and calculate reverberation time in a room. # Understand the concept of impedance and how mechanical and acoustic impedance relate to audiological testing.
Assessment:	Two short tests during class following lectures 7 and 14 worth 10% each – 20% A two hour written examination at the end of the semester – 80%. Students must pass the written examination in order to pass this subject.
Prescribed Texts:	Nil
Recommended Texts:	Nil
Breadth Options:	This subject is not available as a breadth subject.
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Generic Skills:	On completion of this subject, students should show:

	<ul style="list-style-type: none"># Well developed problem-solving abilities# An ability to evaluate and synthesise information in a flexible manner# A capacity to articulate their knowledge in both oral and written formats
Related Course(s):	Master of Clinical Audiology