## Module Template for New and Revised Modules<sup>1</sup>

Module Code	EEPMMT31
Module Name	PSYCHOACOUSTICS
ECTS Weighting <sup>2</sup>	5 ECTS
Semester taught	Semester 2
Module Coordinator/s	Nils Peters
Module Learning Outcomes with reference to the Graduate Attributes and how they are developed in discipline	On successful completion of this module, students should be able to:  LO1. Understand the fundamentals of auditory perception of attributes such as loudness, pitch, timbre, and spatial hearing.  LO2. Conduct independent research in Psychoacoustics and Acoustics  LO3. Write research papers and literature reviews on various topics related to Psychoacoustics and Acoustics  LO4. Compare and contrast different approaches to the experimental
	evaluation of auditory perception.  Graduate Attributes: levels of attainment To act responsibly - Enhanced To think independently - Attained To develop continuously - Attained To communicate effectively - Attained
Module Content	This module addresses auditory perception and consider the impression associated with various physical and physiological attributes and related measures, including: the physics of sound, loudness, pitch perception, timbre perception, Auditory Scene Analysis (ASA), spatial hearing, and sound source localization.

<sup>&</sup>lt;sup>1</sup> <u>An Introduction to Module Design</u> from AISHE provides a great deal of information on designing and re-designing modules.

<sup>&</sup>lt;sup>2</sup> TEP Glossary

Teaching and Learning Methods	Learning is via Le	cture presenta	tion and questio	n and answer s	essions.
Assessment Details³  Please include the following:	Assessment Component  Assignment 1  Assignment 2	Assessment Description Research Essay Research Essay	LO Addressed  1, 2, 3, 4  1, 2, 3, 4	% of total 50% 50%	Week due Week 8 Week 12
Reassessment Requirements					
Contact Hours and Indicative Student Workload <sup>3</sup>	Contact hours:  22 hours of lectures  Independent Study (preparation for course and review of materials):  28 hours  Independent Study (preparation for assessment, incl. completion of assessment):  30 hours				
Recommended Reading List	Stephen Handel: Listening Albert Bregman: Auditory Scene Analysis F. Alton Everest: Master Handbook of Acoustics Barry Blesser and Linda-Ruth Salter: Spaces Speak, Are you Listening?				
Module Pre-requisite	None				
Module Co-requisite	None				
Module Website	https://www.tcd.ie/eleceng/mmt/postgraduate/semester- 2/#psychoacoustics				

<sup>&</sup>lt;sup>3</sup> TEP Guidelines on Workload and Assessment

Are other Schools/Departments involved in the delivery of this module? If yes, please provide details.	No	
Module Approval Date		
Approved by		
Academic Start Year	2024	
Academic Year of Date	2024-2025	