

Module Details for PERCEPTION

Historic Record

Module Code	PSU12070
Module Name	PERCEPTION
Module Short Title	None
ECTS weighting	5
Semester/term taught	Michaelmas Term
Contact Hours and Indicative Student Workload	One semester: 22 lectures; 103 hours independent study
Module Coordinator/Owner	Lecturer and Module Coordinator: Prof. Fiona Newell
Learning Outcomes	<p>On successful completion of this course, students will be able to:</p> <ul style="list-style-type: none">· Describe the structure and function of major sense organs (vision, audition, touch, taste, and smell, including how information is encoded· Describe the pathways between major sense organs and the brain· Locate the primary sensory regions of the human cortex and understand their function;· Discuss and evaluate major approaches involved in our understanding of object, face, and scene perception;· Discuss how neurological conditions provide insight into normal perceptual processes;· Discuss and evaluate major theoretical approaches on the role of attention on perception;· Discuss and evaluate how motion is perceived;· Outline and understand major/key issues in developmental perception across the lifespan;· Understand and describe how individuals differ in the way in which we perceive the contents of our world;· Describe the key methodologies used to investigate perceptual function.
Module Learning Aims	<p>This module is designed to introduce students to the field of human perception and the principles underlying perceptual processing within the main sensory systems. The approach of the module is based on cognitive neuroscience and will provide a foundation knowledge of the physiological structure of the main sensory organs and the associated brain structures, and an overview of the functional properties of each of these sensory systems. Students will have knowledge of perception from low-</p>

level processing, such as stimulus detection, to more higher-level processing such as object or person recognition. The module aims to provide an integrated approach to the study of human perception from physiological, behavioural, and neuropsychological research.

Module Content

1. Introduction to perception
2. Methods in measuring perception
3. Methodologies and psychophysics
4. Physiology of visual system
5. Visual perception: low-level processing
6. Visual perception: mid-level processing
7. Physiology of auditory system
8. Sound perception
9. Physiology of somatosensory system
10. Tactile and haptic perception
11. Perceptual development
12. Motion perception
13. Featural and spatial perception
14. Object recognition
15. Face perception and person recognition
16. Scene perception and recognition
17. Selective attention and perception
18. Visual search
19. Attention and change blindness
20. Major theoretical approaches to perception
21. Individual differences in perception (Pt 1)
22. Individual differences in perception (Pt 2)

Recommended Reading List

Required text(s)

Title: SENSATION & PERCEPTION 6th Edition

ISBN: 9781605352114

Authors: J. Wolfe; K. Kluender; D. Levi; L. Bartoshuk; R. Herz; R. Klatsky; S. Lederman; D. Merfeld

Publisher: Sinauer Associates (for Oxford University Press)

Supplementary texts

Other readings are given as the module progresses. Other supporting materials (e.g. links to TED talks, online resources) will be made available on Blackboard.

Module Pre-requisite	None
Module Co Requisite	None
Assessment Details@I-MOD-ASSM	TBC
Module Website	
Module approval date	
Approved By	
Academic Start Year	2012-2013
Academic Year of Data	2024/25