Module Definition Form (MDF)

Module code: MOD004110	**Version:** 5 **Date Amended:** 08/Dec/2021

1. Module Title
Perceptual Motor Skills

2a. Module Leader
Kjell Van Paridon

2b. School
School of Psychology, Sport and Sensory Sciences

2c. Faculty
Faculty of Science and Engineering

3a. Level
5

3b. Module Type
Standard (fine graded)

4a. Credits
15

4b. Study Hours
150

5. Restrictions

Type	Module Code	Module Name	Condition
Pre-requisites:	None		
Co-requisites:	None		
Exclusions:	None		
Courses to which this module is restricted:	BSc (Hons) Sport and Exercise Science, BSc (Hons) Sport Coaching and Physical Education		

LEARNING, TEACHING AND ASSESSMENT INFORMATION

6a. Module Description

Athletes rely on a constant stream of sensory information (e.g. visual, auditory, proprioceptive) from the environment to execute the motor skills needed for successful sporting performance. Within this module we will focus on the three stages of motor control: Perception, Decision and Action. The perception of sensory information will be discussed in relation to goal directed and stimulus driven behaviour from a theoretical and applied perspective. Within this you will examine topics such as the visual system and the use of eye tracking methodology for the assessment of visual attention. Additionally, you will examine the influence of factors such as anxiety, expertise and expectancies on the perception of sensory information and elements such as anticipation and decision making. The second part of the module will focus on programming movement (information processing and dynamic systems theories), movement coordination and the execution and acquisition of motor skills.

This module offers you both a theoretical understanding of perceptual motor skill execution as well as applied elements related to the assessment of attention and motor skills. You will develop key transferable skills such as experimental design, data analysis and the presentation of data in a written format.

6b. Outline Content

Introduction to motor skills and information processing Perception- stimulus identification: Attention in sport Indirect and direct perception; Direction perception and action; Sensory contribution to motor skills; The visual system; Visual search strategy in sport; Ecological psychology Decision-response selection: Motor programs; open and closed loop programs; Schema theory and the generalised motor program; Dynamic systems theory Action-response programming: Closed loop action; Open loop actions Factors influencing motor skills: Expertise; Anxiety

6c. Key Texts/Literature

The reading list to support this module is available at: https://readinglists.aru.ac.uk/

6d. Specialist Learning Resources

Sport and Exercise Sciences Laboratories

7. Learning Outcomes (threshold standards)

No.	Type	On successful completion of this module the student will be expected to be able to:
1	Knowledge and Understanding	Identify, analyse and interpret models of motor skill execution
2	Knowledge and Understanding	Identify, analyse and interpret factors that influence perception of sensory information and execution of motor skills.
3	Intellectual, practical, affective and transferrable skills	Develop a clear understanding of scientific experimental design, including the analysis and presentation of data in a written format

8a. Module Occurrence to which this MDF Refers				
Year	**Occurrence**	**Period**	**Location**	**Mode of Delivery**
2025/6	ZZF	Template For Face To Face Learning Delivery		Face to Face

8b. Learning Activities for the above Module Occurrence			
Learning Activities	**Hours**	**Learning Outcomes**	**Details of Duration, frequency and other comments**
Lectures	36	1-3	Weekly 3 hour sessions combining lectures, seminar and practical elements
Other teacher managed learning	6	1-3	Teacher managed VLE activities with discussion boards
Student managed learning	108	1-3	Includes the preparation for the weekly sessions, VLE activities, background reading and assignment preparation
TOTAL:	150		

9. Assessment for the above Module Occurrence					
Assessment No.	**Assessment Method**	**Learning Outcomes**	**Weighting (%)**	**Fine Grade or Pass/Fail**	**Qualifying Mark (%)**
010	Coursework	2	25 (%)	Fine Grade	30 (%)
Online CBA with MCQ questions based on some key readings in the domain of perceptual motor skills (30 minutes, 500 words equivalent)					

Assessment components for Element 010			
Component No.	**Assessment Title**	**Submission Method**	**Components needed for Mark Calculation?**
010/1	In-class test	Scheduled Activity: Timetabled assessment task	Best 4 out of 5. All components used in calculation are equally weighted
010/2	In-class test	Scheduled Activity: Timetabled assessment task	
010/3	In-class test	Scheduled Activity: Timetabled assessment task	
010/4	In-class test	Scheduled Activity: Timetabled assessment task	
010/5	In-class test	Scheduled Activity: Timetabled assessment task	

Assessment No.	Assessment Method	Learning Outcomes	Weighting (%)	Fine Grade or Pass/Fail	Qualifying Mark (%)
011	Coursework	1-3	75 (%)	Fine Grade	30 (%)
You are required to write a 2000 word scientific report based on data collected in a perceptual motor skills experiment.					

In order to pass this module, students are required to achieve an overall mark of 40% (for modules at levels 3, 4, 5 and 6) or 50% (for modules at level 7*).

In addition, students are required to:
(a) achieve the qualifying mark for each element of fine graded assessment as specified above
(b) pass any pass/fail elements

[* the pass mark of 50% applies for all module occurrences from the academic year 2024/25 – see Section 3a of this MDF to check the level of the module and Section 8a of this MDF to check the academic year]