Applied Motor Control

School of Sport & Exercise Sciences

College of Life and Environmental Sciences

Details

Code 23652

Level of study Third/Final year

Credit value 20

Semester 1 & 2

Pre-requisite modules Sensation and movement **20105 (/undergraduate/studyabroad/modules/data/10/36/36/02/01/20105.aspx)**

Module description

The way complex movements are coordinated has been the object of research for nearly a century. Although much progress has been made, this is still a very active field of research. Moreover, there is a current debate between two psychological theories both aiming to explain how our movements are coordinated. The older computational theory proposes that the brain is organised on the model of a computer and sends programmes to activate muscles. The emergent ecological-dynamic theory argues that it is through evolution that self-organised systems emerge. New progress in these two theories will be presented and contrasted in view of development, learning, and motor control issues.

Teaching and learning methods

Lectures, seminars and group discussions to facilitate learning