

COURSE DETAIL

HUMAN MOVEMENT ANALYSIS

Country

Taiwan

Host Institution

National Taiwan University

Program(s)

National Taiwan University

UCEAP Course Level

Graduate

UCEAP Subject Area(s)

Bioengineering

UCEAP Course Number

214

UCEAP Course Suffix**UCEAP Official Title**

HUMAN MOVEMENT ANALYSIS

UCEAP Transcript Title

HUMAN MOVEMENT

UCEAP Quarter Units

4.50

UCEAP Semester Units

3.00

Course Description

This course provides the mechanical basis underlying body posture and movement; and techniques necessary for the analysis of human movement for clinical applications and research. Human posture and movement are a result of highly coordinated mechanical interactions between bones, joints, ligaments and muscles under the control of the nervous system. Understanding of the synthesis and control of human movement requires a complete knowledge of the force interactions within the neuromusculoskeletal system. This course offers a clear understanding of the mechanics of posture and movement as well as the theoretical basis and ability of operation of instruments used in human motion analysis such as stereophotogrammetry systems, EMG and force plates.

Language(s) of Instruction

English

Host Institution Course Number

Biomed7055

Host Institution Course Title

HUMAN MOVEMENT ANALYSIS

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Biomedical Engineering

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