



COURSE SYLLABUS

Clinical Gait Analysis, 7.5 credits

Klinisk gånganalys, 7,5 högskolepoäng

Course Code:	HGAK11	Education Cycle:	First-cycle level
Confirmed by:	Utbildningsrådet Apr 11, 2011	Disciplinary domain:	Medicine
Valid From:	Dec 12, 2011	Subject group:	MT2
Version:	1	Specialised in:	G1F
		Main field of study:	Prosthetics and Orthotics

Intended Learning Outcomes (ILO)

Upon completion of the course students should have the:

Knowledge and understanding

- demonstrate a high level of knowledge related to the technical background of acquiring clinical gait data
- compare results of instrumented gait analysis to findings presented in the scientific literature.

Skills and abilities

- critically evaluate methods of acquiring gait data and draw conclusions regarding which method(s) to use in a given setting
- independently collect and process gait analysis data from patients with an orthopaedic or neurological deficit
- critically evaluate the function of orthopaedic devices based upon the outcomes of gait analysis and recommend alterations or improvements
- in both oral and written formats, present and discuss the results of gait analysis to one's peers and to other health professionals.

Judgement and approach

- demonstrate an understanding of the benefits of collaboration and transfer of knowledge from/to other professional groups
- critically evaluate personal needs for knowledge and competence development for the profession as a whole
- demonstrate professionalism with patients undergoing a gait assessment.

Contents

- review of normal and pathological gait kinematics and kinetics
- interpreting the results of instrumented gait analysis
- gait analysis systems including three dimensional gait analysis, EMG and pressure measurement
- practical use of gait analysis systems
- applied gait analysis case studies

Type of instruction

This course is presented in the form of lectures, group work, group presentations and laboratory sessions.

The teaching is conducted in English.

Prerequisites

General entry requirements and passing grade in the biomechanics course 15 credits or equivalent.

Examination and grades

The course is graded A, B, C, D, E, FX or F.

Examination will be based upon one group oral presentation and one individual written assignment.

A university lecturer serves as the course examiner.

Registration of examination:

Name of the Test	Value	Grading
Examination	7.5 credits	A/B/C/D/E/FX/F

Other information

Attendance requirements

During the course attendance is compulsory to laboratory sessions and group presentations.

Course literature

Kirtley, C (2006). *Clinical gait analysis: Theory and Practice*. Washington: Churchill Livingstone.

Whittle, M. (2007). *An Introduction to Gait Analysis*. Oxford: Elsevier.

The most recent editions of the course literature should be used.

Additional relevant journal articles.

Registration nr 415/2011

Department of Rehabilitation