



**Karolinska
Institutet**

Course syllabus for

Exposure, Assessment and Intervention, 7.5 credits

Exponering, riskbedömning och intervention, 7.5 hp

This course syllabus is valid from spring 2016.

Please note that the course syllabus is available in the following versions:

Autumn2014 , Spring2016 , Spring2018 , Spring2019 , Spring2020 , Spring2022 , Spring2024

Course code	3AH022
Course name	Exposure, Assessment and Intervention
Credits	7.5 credits
Form of Education	Higher Education, study regulation 2007
Main field of study	Work and Health
Level	AV - Second cycle
Grading scale	Pass with distinction, Pass, Fail
Department	Institute of Environmental Medicine
Decided by	Programme Committee 5
Decision date	2014-03-19
Revised by	Programme Committee 5
Last revision	2015-09-16
Course syllabus valid from	Spring 2016

Specific entry requirements

Occupational therapist - or physiotherapy degree of 180 HE credits or Bachelor's degree in occupational therapy or physiotherapy.

English and Swedish language skills equivalent to English A/English 6 and Swedish B/Swedish 3 at Swedish upper secondary school are also required.

Objectives

On completion of the course, the student should be able to:

- Contrast and practically apply methods for measurement of physical and psychosocial exposure in different working environments.
- Carry out ergonomic risk assessments and from these suggest and explain ergonomic action proposals.
- Critically review risk assessments and action proposals in relation to scientific literature and relevant working environment legislation.

- Analyse possibilities and impediments at implementation of ergonomic measures.

Content

The course includes theory and practice about measurement strategies and methods (e.g. technical measuring instruments, observation techniques, questionnaires and interview) to measure physical and psychosocial exposure on the work. Further, ergonomic analysis and risk assessment on both individual and organisational levels are included, with specialisation within physical ergonomics and planning and implementation of ergonomic measures. The course also treats preventive strategies and measures concerning problems in the locomotive organs at psychosocial exposure.

Teaching methods

The teaching consists of a combination of distance education and scheduled campus time. The tuition forms at the campus teaching include lectures, seminars and group assignments. The distance education includes literature studies, group assignments, report writing, interview surveys etc.

At the campus teaching can occur compulsory attendance at certain teaching parts.

Examination

Examination takes place through individual, written take-home examination, and a written individual written assignment with oral presentation in seminars. The examination of the written assignment is assessed from both written contents and oral presentation.

The grading system is Failed/Passed/Passed with distinction.

Compulsory attendance A passing grade requires attendance at compulsory lectures. The course leader decides if and how absence from training should be compensated. Before student has participated in compulsory lectures or compensated absence in accordance with the course director's instructions be reported not the student's course results in LADOK.

Limited number of examinations The student has the right to participate in six examination sessions. If the student is not passed after four examination sessions, he or she is urged to visit the study adviser. Participation in an examination is defined as an occasion on which a student attends an examination. The submission of a blank examination paper is counted as an examination. An examination for which the student registered but not participated in, will not be regarded as an examination.

Transitional provisions

Examination will be provided during a time of two years after a possible cancellation of the course. Examination can take place according to an earlier literature list during a time of one year after the date when a major renewal of the literature list has been made.

Other directives

Course evaluation will be carried out according to the guidelines that are established by the Board for education and based on evaluation routines within the Master's programme (one-year) in work and health.

Literature and other teaching aids

Further literature in the form of e.g. scientific articles, regulations, and reports will be applicable.

Toomingas, Allan; Mathiassen, Svend Erik; Wigaeus Tornqvist, Ewa

1. uppl. : Lund : Studentlitteratur, 2008 - 373 s.
ISBN:978-91-44-04626-6 LIBRIS-ID:11200722

[Library search](#)

Arbete och teknik på människans villkor

Bohgard, Mats

2. uppl. : Stockholm : Prevent, 2011 - 740 s.
ISBN:978-91-7365-110-3 (inb.) LIBRIS-ID:12237276

[Library search](#)

Hellberg, Annika

Vibrationer i arbetet : hur du minskar risken för skador

1. uppl. : Solna : Arbetsmiljöverket, 2005 - 138 s.
ISBN:91-7464-457-2 LIBRIS-ID:9995612

[Library search](#)

Kjellberg, Anders

Att ställa frågor om arbetsmiljön

4:e upplagan : Stockholm : Arbetslivsinstitutet, 2003

Pheasant, Stephen; Haslegrave, Christine M.

Bodyspace : anthropometry, ergonomics and design of work

3. ed : London : Taylor & Francis, 2006 - 332 s.
ISBN:0-415-28520-8 LIBRIS-ID:9790197

[Library search](#)

Evaluation of human work

Wilson, John R.; Corlett, Nigel

3. ed. : Boca Raton, Fla. : Taylor & Francis, 2005 - 1026 s.
ISBN:0-415-26757-9 LIBRIS-ID:9869165

[Library search](#)

Heijne Wiktorin, Christina von; Nordin, Margareta

Tillämpad biomekanik

2., [omarb.] uppl. : Lund : Studentlitteratur, 2012 - 292 s.
ISBN:978-91-44-05713-2 LIBRIS-ID:12323542

[Library search](#)

Nordin, Margareta.; Andersson, Gunnar; Pope, M. H.

Musculoskeletal disorders in the workplace : principles and practice

2. ed. : Philadelphia : Mosby Elsevier, cop. 2007 - xiii, 428 p.
ISBN:978-0-323-02622-2 LIBRIS-ID:11911783

[Library search](#)

Handbook of human factors and ergonomics methods

Stanton, Neville

New York, N.Y. : CRC Press, cop. 2005 - Ca 1000 s. (var. pag.)
ISBN:0-415-28700-6 LIBRIS-ID:8901065

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