Course syllabus for

Radiology 2, 7.5 credits

Röntgendiagnostik 2, 7.5 hp
This course syllabus is valid from spring 2016.
Please note that the course syllabus is available in the following versions:
Autumn2007 , Autumn2008 , Autumn2009 , Autumn2010 , Autumn2011 , Autumn2012 , Spring2016 , Autumn2016 , Autumn2017 , Autumn2018 , Autumn2019 , Autumn2021 , Autumn2023 , Autumn2024

Course code	1RS006
Course name	Radiology 2
Credits	7.5 credits
Form of Education	Higher Education, study regulation 2007
Main field of study	Radiography
Level	G2 - First cycle 2
Grading scale	Fail (U), pass (G) or pass with distinction (VG)
Department	Department of Clinical Science, Intervention and Technology
Decided by	Programnämnden för röntgensjuksköterskprogrammet
Decision date	2007-06-20
Revised by	Programme Committee 6
Last revision	2015-10-22
Course syllabus valid from	Spring 2016

Specific entry requirements

To be qualified to a higher semester, it is required that the student has taken at least 15 credits from last semester, and all credits from previous semesters.

Objectives

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

- identify and explain pathological changes and their position within diagnostic imaging of the skeleton system
- explain pathological changes in thorax, abdomen and urogenital organs in diagnostic imaging and identify and name commonly occurring pathology
- describe how contrast agents can contribute to the diagnosis in radiological studies
- describe how pathological changes are visualised in different diagnostic imaging examination methods
- review and account for different scientific publications relevant to diagnostic radiology and discuss clinical application of the results

- analyse and assess radiographic images concerning image quality

Content

In the course we studie commonly occurring pathology at children and adults that may be done visible with diagnostic imaging methods. An important part is to identify disease that require acute actions. Strong emphasis is placed on to be able to explain pathological changes and their position with an adequate medical terminology. Within the orthopaedics we studie various types of osteosyntesmaterial to be trained to identify these.

An important part is that the student should practice to identify pathological changes in radiographic images as conventional X-ray images, computer tomography images, magnetic resonance imagings in nuclear medical examinations and in ultrasound examinations.

Teaching methods

Lectures, seminars and image studies.

Examination

Examinations takes place through an independent written examination.

In consultation with the examiner of the course, the student may get a complementary assignment in case of absence from a compulsory part.

The student is entitled to a total of six test occasions to get passed.

In connection to the course three occasions will be given One within the course, two during the following re-examinations. In certain cases, it is required that the student submits an exemption application before he/she get the results of his/her latest completed examination. Three more opportunities will be provided as described above when the course is run next time.

Transitional provisions

The student has the opportunity to be examined under a previous course syllabus within a year after the date of the course was decided closed-down or undergoes major changes.

Other directives

Course evaluation will be carried out in accordance with the guidelines established by the Board of Education at Karolinska Institutet.

Literature and other teaching aids

Andersson, Roland m.fl.

Kirurgiska sjukdomar

2. uppl. : Studentlitteratur AB, 2012 - 400 s.
ISBN:978-91-44-05680-7 LIBRIS-ID:12469356

Library search

Lisle, David.

Imaging for students

4th ed. : London : Hodder Arnold, 2012. - ix, 292 p.

ISBN:1444164821 (e-book) LIBRIS-ID:14206255
Library search

Möller, Torsten B.; Reif, Emil

Pocket atlas of radiographic anatomy

2nd ed., rev. and enl. : Stuttgart ; a New York : Thieme, 2000. - ix, 374 p.
LIBRIS-ID:10332052
URL:
https://lt.ltag.bibl.liu.se/login?url=http://www.thieme.com/ebooklibrary/flexibook/pubid-521955621/indexz Extern access endast anställda och studenter vid LiU

Möller, Torsten B.; Reif, Emil

Pocket atlas of sectional anatomy : computed tomography and magnetic resonance imaging. Vol. 2 Thorax, heart, abdomen and pelvis

4. ed. : Stuttgart : Thieme, cop. 2014 - viii, 337 s.
ISBN:9783131256041 LIBRIS-ID:14983183
Library search

Radiologi

Aspelin, Peter; Pettersson, Holger

1. uppl. : Lund : Studentlitteratur, 2008 - 848 s.
ISBN:978-91-44-03887-2 (inb.) LIBRIS-ID:10948825
URL: http://www.studentlitteratur.se/omslagsbild/artnr/31995-01/height/320/width/320/bild.jpg
Library search

Wicke, Lothar

Atlas of Radiologic Anatomy

7 : New Jersey : MediMedia, 2004 - 362
ISBN:1929007-4-69
Library search

Mettler, Fred A.

Essentials of radiology

3. ed. : Philadelphia, Pa. : Elsevier Saunders, cop. 2014 - ix, 309 s.
ISBN:9781455742257 LIBRIS-ID:14603695
Library search