

Course syllabus for

Radiology 3, 4.5 credits

Röntgendiagnostik 3, 4.5 hp

This course syllabus is valid from autumn 2015.

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

<u>Autumn2007</u>, <u>Autumn2009</u>, <u>Spring2010</u>, <u>Autumn2010</u>, <u>Autumn2011</u>, <u>Autumn2013</u>, Autumn2015, <u>Autumn2016</u>, <u>Autumn2017</u>, <u>Autumn2018</u>, <u>Autumn2019</u>, <u>Autumn2020</u>, <u>Autumn2021</u>, <u>Autumn2023</u>,

Autumn2024

Course code 1RS007
Course name Radiology 3
Credits 4.5 credits

Form of Education Higher Education, study regulation 2007

Main field of study Radiography

Level G2 - First cycle 2

Grading scale Pass with distinction, Pass, Fail

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 2015-05-05 Course syllabus valid from Autumn 2015

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

After completing the course the student will:

- explain the relationship between the referral content and choice of modality and the methodology in neuroradiology
- identify and explain common pathological changes and their position within the neuroradiology
- identify indicated pathological changes in the vascular system and explain endovascular therapies
- describe how contrast may contribute to the diagnosis in interventional and neuroimaging studies.
- analyze and evaluate image quality in diagnostic imaging
- relate the latest research and proven experience to the learning outcomes regarding neuro radiology and the choice of clinical application

Course code: 1RS007

Content

The course focuses on various modalities and common pathology that can be made visible with diagnostic methods in neuroradiology and vascular diagnosis with a review of endovascular therapies. An important aspect is to identify medical conditions that require urgent action. Emphasis is placed on being able to explain pathological changes and their location with adequate medical terminology. How different methods for examination may be justified on a scientific basis and evidence-based approach are also studied during the course.

Teaching methods

Lectures, seminars, image studies and group work

Examination

Examination takes place through an independent written examination and active participation and performance of group work and attendance at the at the presentation session.

To pass with distinction the student must pass in the individual written exam with distinction and pass, active participation and performance of group work and attendance at the presentation session. For this the assessment is based on criteria.

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 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 according to a previous course syllabus within a year from the date when the course was decided close-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

Kirurgiska sjukdomar: patofysiologi, behandling, specifik omvårdnad

Andersson, Roland; Lyons, Lena

Lund: Studentlitteratur, 2004 - 460 s.

ISBN:91-44-02418-5 (inb.) LIBRIS-ID:9416256

Library search

Möller, Torsten B.; Reif, Emil

Pocket atlas of sectional anatomy: computed tomography and magnetic resonance imaging.n Vol. 1,p Head and neck

Course code: 1RS007

3. ed., rev. and updated /b Torsten B.Moeller, Emil Reif: Stuttgart: Thieme, 2007 - ix, 264 s.

ISBN:3-13-125503-X (GTV) LIBRIS-ID:10257344

Library search

Möller, Torsten B.; Reif, Emil

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

3. ed., rev. and updated: Stuttgart: Thieme, cop. 2007 - viii, 247 s.

ISBN:3-13-125603-6 (GTV) LIBRIS-ID:10322889

Library search

Endovaskulär intervention: en praktisk vägledning

Falkenberg, Mårten; Delle, Martin

1. uppl. : Lund : Studentlitteratur, 2014 - 510 s. ISBN:9789144079066 LIBRIS-ID:14984995

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

Lisle, David A.

Imaging for students

2. ed.: London: Arnold, cop.2001 - 262 s.

ISBN:0-340-76231-4 (pbk) LIBRIS-ID:8284493

Library search

Mettler, Fred A.

Essentials of radiology

2. ed.: Philadelphia, Pa.: Saunders, cop. 2005 - 416 s.b ill.

ISBN:0-7216-0527-3 (hft.) LIBRIS-ID:9681659

Library search

Wicke, Lothar

Atlas of Radiologic Anatomy

7: New Jersey: MediMedia, 2004 - 362

ISBN:1929007-4-69

Library search