



Faculty of Medicine

## **RSJD22, Radiography VI: Specific Radiographic Examinations and Interventions, 25 credits**

*Radiografi VI: Specifika undersökningar och interventioner, 25 högskolepoäng*  
First Cycle / Grundnivå

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### **Details of approval**

The syllabus is an old version, approved by Board of Health Sciences Education on 2014-12-04 and was last revised on 2017-04-18 by The Nursing, Radiography, and Reproductive, Perinatal and Sexual Health Programmes Board. . The revised syllabus applied from 2017-04-18. , autumn semester 2017.

### **General Information**

The course is included as a compulsory component in the Bachelor of Science programme in Diagnostic Radiology Nursing, 180 credits. It complies with the guidelines of the Higher Education Ordinance (SFS 1993:100 with later amendments). The course consists of clinical training integrating theory within the following fields: acute conventional radiography, somatic emergency care, computed tomography, magnetic resonance imaging, angiography and interventions, and nuclear medicine investigations.

*Language of instruction:* Swedish  
Some components may be in English.

*Main field of studies*

Radiography

*Depth of study relative to the degree requirements*

G2F, First cycle, has at least 60 credits in first-cycle course/s as entry requirements

### **Learning outcomes**

**Knowledge and understanding**

On completion of the course, the students shall be able to

- explain and justify nursing interventions, the use of modality, technical parameters, examination methodology and radiation protection measures
- identify and describe anatomical structures and pathological changes in medical images
- explain and justify nursing actions for acutely and/or seriously ill patients of different ages
- explain and justify safety measures for avoiding of care injuries
- calculate, judge and justify the choice of medication and radiopharmaceuticals based on the field of use
- critically review typical procedures and relate them to policy documents and current research

**Competence and skills**

On completion of the course, the students shall be able to

- perform the different stages of the peri-radiographic process in connection with acute conventional radiography, computed tomography, magnetic resonance imaging, angiography and interventions, and participate actively in nuclear medicine examinations
- apply principles of aseptic and sterile techniques, and provide instruments and assistance at examinations and interventions
- use a professional approach to communicate with and inform patients and their loved ones
- critically assess and evaluate medical images
- systematically assess and perform nursing and medical engineering measures for acutely and/or seriously ill patients
- administer drugs and prepare radiopharmaceuticals in a way that is safe for patients and personnel
- take different security measures to avoid care injuries
- work in a team, and perform duties of triage and leadership

**Judgement and approach**

On completion of the course, the students shall be able to

- identify and discuss ethical dilemmas in connection with examination and treatment
- apply a professional approach vis-à-vis patients, loved ones and staff
- highlight areas for improvement and current research in the field of the radiology nurse, and identify the personal need of further knowledge

## **Course content**

The peri-radiographic process for patients of different ages with regard to

- acute conventional radiography
- computed tomography
- magnetic resonance imaging
- angiography
- interventions
- nuclear medicine examinations

Nursing of acutely and/or seriously ill patients

Medical engineering component

Information, communication and teaching

Hygiene, aseptic and sterile techniques

Anatomy, pathology and diagnostics

Drugs and radiopharmaceuticals

Radiation safety

Quality and security work

Leadership and teamwork

## **Course design**

The teaching and learning activities are designed so as to enable students to develop a specialised understanding and are characterised by an active search for knowledge, problem solving, reflection and critical analysis. Among the work methods used are independent study, group work, peer review, skills training, seminars and lectures.

Absence from compulsory learning activities can be compensated for by other learning activities.

Clinical training comprises 32 hours a week on average and may take place all times of the day all days of the week.. It includes organised supervision and skills training.

## **Assessment**

Clinical training is assessed individually and in accordance with a standardised form. One opportunity for clinical training is arranged for each time the course is offered. Students who fail to pass at the first opportunity will be offered a second opportunity for clinical training. There are only two opportunities for clinical training. A student who fails the clinical training twice must discontinue his or her studies.

Students who interrupt their clinical training prematurely, i. e. when 40 percent or more of the total course period has elapsed, shall be graded (Pass/Fail) and will have lost an opportunity for clinical training. The clinical training must be discontinued if the student commits serious errors during clinical training because of gaps in knowledge or skill. An individual plan will be drawn up for the student. Clinical training may only be resumed when the student has demonstrated that the shortcomings have been remedied.

If a student fails the clinical training of the course, a new opportunity for clinical training must be offered and completed before the clinical training of a following course may be commenced. An individual plan will be drawn up for the student.

Theoretical components: One examination and two opportunities to retake the examination are arranged for each assessed component. Students who do not achieve a pass on any of these occasions will be able to retake the examination on a later occasion. Students who fail two exam opportunities can request a change of examiner. At re-examination, individual examination may replace group examination.

The examiner, in consultation with Disability Support Services, may deviate from the regular form of examination in order to provide a permanently disabled student with a form of examination equivalent to that of a student without a disability.

*Subcourses that are part of this course can be found in an appendix at the end of this document.*

## **Grades**

Marking scale: Fail, Pass.

For a pass on the course, the student must have passed all assessed components.

## **Entry requirements**

To be admitted to the course, students must satisfy the general (see programme syllabus) and specific admission requirements.

Passed courses:

- All courses/modules/assessed components up to and including semester 3 (90 credits)

- Passed previous components/courses of clinical training.

## **Further information**

The courses are to be studied in the order they are offered.

## Subcourses in RSJD22, Radiography VI: Specific Radiographic Examinations and Interventions

Applies from V15

- 1501 Emergency Conventional Radiography and Computed Tomography, 7,5 hp  
Grading scale: Fail, Pass  
Individual formative assessment according to established criteria with oral feedback (clinical training).
- 1502 Somatic Care - Clinical Training, 3,0 hp  
Grading scale: Fail, Pass  
Compulsory attendance with compulsory learning activity (specified in the course handbook).
- 1503 Magnetic Resonance Imaging - Clinical Training, 5,0 hp  
Grading scale: Fail, Pass  
Individual formative assessment according to established criteria with oral feedback (clinical training).
- 1504 Angiography and Interventions - Clinical Training, 5,0 hp  
Grading scale: Fail, Pass  
Individual formative assessment according to established criteria with oral feedback (clinical training).
- 1505 Nuclear Medicine Examinations, 3,0 hp  
Grading scale: Fail, Pass  
Written take-home exam and compulsory learning activity (specified in the course handbook).
- 1506 Radiographic Examinations and Interventions, 1,5 hp  
Grading scale: Fail, Pass  
Written individual invigilated exam and oral case seminar in groups with individual assessment.