

SYLLABUS

Radiography focusing acute imaging 7.5 credits M0065H

Radiografi - med inriktning mot akut diagnostik

Course syllabus admitted: Autumn 2021 Sp 1 - Autumn 2021 Sp 2

**DECISION DATE
2021-02-16**

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Radiografi - med inriktning mot akut diagnostik

First cycle, M0065H

Education level	Grade scale	Subject	Subject group (SCB)
First cycle	U G VG *	Radiologi	Medicine

Entry requirements

In order to meet the general entry requirements for first cycle studies you must have successfully completed upper secondary education and documented skills in English language and The course requires furthermore the following passed courses:

M0085H Radiography, basic course I

M0086H Radiography, basic course II

M0026H Medical Science: Anatomy and Physiology in position to Radiology

M0050H Radiation Science and Radiological Modalities

M0067H Radiography Nursing Interventions in position radiography with Clinical Practice M0029H Medical Science: Microbiology, infection control and infection disease

M0066H Radiography Nursing techniques in position radiography with Clinical Practice M0070H General Pharmacology, Contrast Agents and Pharmaceutical Calculation

M0088H Medical Science - in-depth studies in anatomy and pathology

M0089H Radiography - imaging systems and methods

M0057H Radiography in position to conventional radiology with Clinical Practice

M0064H Scientific specialization in radiography

M0074H Radiography - nursing at advanced diagnostics

M0054H Radiography in position to computerised tomography with Clinical Practice (0011)

M0055H Radiography in position to magnetic resonance imaging with Clinical Practice (0011)

M0056H Radiography in position to interventional radiology with Clinical Practice (0007)

M0083H Nuclear medicine (0003)

Selection

The selection is based on 1-165 credits.

Examiner

Marice Bäckström

Course Aim

The course intends to increase the students' ability to handle situations where acutely ill/injured individuals are involved and to increase the students' knowledge and understanding of the organisation of acute healthcare and the importance of cooperation between different professions. On completion of the course, the student should be able to:

- Evaluate an acutely ill patient and consider primary measures and be able to discuss prioritising of patients.
- Show the ability to inform, communicate and take care of acutely ill patients and their relatives in a professional way.
- Be able to discuss diagnostic radiology and methodology in frequently occurring acute pathologies.
- Show the ability to carry out frequently occurring acute radiography examinations.
- Reflect on his/her own and others' actions and identify areas of improvement in radiology.
- Explain according to which principles children should be taken care of in radiography examinations.
- Take care of an apparently unresponsive individual in an appropriate way with specialization in children.
- Carry out pharmaceutical calculation

Contents

- Treatment of commonly occurring acute diseases and radiological examinations of these
- Basic nursing in intensive and emergency care
- Nursing interventions and medically indicated measures in connection with acute diseases
- Organisation and cross-professional cooperation in emergency care, intensive care and acute radiography
- Children in X-ray
- Child CPR
- Work placement with focus on acute radiography
- Pharmaceutical calculation

Realization

Each course occasion's language and form is stated and appear on the course page on Luleå University of Technology's website.

The course offers introductory lectures in the different parts to achieve the course objectives. The lectures take place on campus or via the distance-bridging technology. The course contains compulsory laboratory sessions and seminars. The students also acquire knowledge and practise to achieve the learning objectives via the work placement. Via the assessment interview, the student may practice self-evaluation and evaluation of his/her knowledge and needs of further knowledge.

The content of course elements and its teaching methods specifically geared towards radiology nursing profession.

Examination

If there is a decision on special educational support, in accordance with the Guideline Student's rights and obligations at Luleå University of Technology, an adapted or alternative form of examination can be provided. The aims of the course and the students' professional competence are examined and assessed through the evaluation interview in the work placement but also through seminars and laboratory sessions within emergency care and acute diagnostic imaging. The more theoretical aims are examined through a digital examination. Alternative examination formats may be used. Only one re-examination/transfer is given for the course in relation to the placement. If there are special circumstances, additional retakes/transfers can be granted. Special circumstances are those stated in Regulations of the National Agency for Higher Education HSVFS 1999:1.

Literature. Valid from Autumn 2019 Sp 1

Aspelin, P. & Pettersson, H. (red.) (2008). Radiologi. (1. uppl.) Lund: Studentlitteratur.

Ehrlich, R.A. & Coakes, D.M. (2016). Patient care in radiography: with an introduction to medical imaging. (9. ed.) St.

Louis, Mo.: Elsevier Mosby.

Koskinen, S.K. & Blanco Sequeiros, R. (red.) (2017). Akut radiologi. (Första upplagan). Stockholm: Liber.

Lampignano, J. & Kendrick, L.E. (2017). Bontrager's textbook of radiographic positioning and related anatomy. (9th ed.) St. Louis, Mo.: Elsevier/Mosby.

Olsen, L.A. & Hälleberg Nyman, M. (2015). Säker läkemedelsberäkning: dos, styrka, mängd. (1. utg.) Stockholm: Natur & kultur.

Svenska rådet för hjärt-lungräddning HLR-rådet (2016). S-HLR barn: kursbok. Stockholm: Svenska rådet för hjärt-lungräddning.

Wikström, J. (2012). Akutsjukvård: omvårdnad och behandling vid akut sjukdom eller skada. (2. uppl.). Lund: Studentlitteratur AB.

Course offered by

Department of Health, Education and Technology

Modules

Code	Description	Grade scale	Cr	Status	From period	Title
0003	Child CPR	U G#	0.5	Mandatory	A12	
0007	Digital exam	U G VG *	1	Mandatory	A14	
0008	Examination in	U G#	0.5	Mandatory	A14	
0009	Clinical practice	U G VG *	4	Mandatory	A14	
0011	Laboration	U G#	0.5	Mandatory	A14	
0013	Seminar	U G#	1	Mandatory	A16	

Last revised

by Head of department of Department of Health, Education and Technology 2021-02-16

Syllabus established

by Prefekt vid Institutionen för hälsovetenskap 2012-03-14