

SYLLABUS

Radiography, Science and research methods II 7.5 credits M0107H

Radiografi, vetenskaplig teori och metod II

Course syllabus admitted: Autumn 2024 Sp 1 - Present

**DECISION DATE
2024-02-13**

Radiography, Science and research methods II 7.5 credits M0107H

Radiografi, vetenskaplig teori och metod II

First cycle, M0107H

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 assumes corresponding knowledge

M0099H Radiography I, 7,5

M0098H Anatomy and Physiology I with focus on radiography, 7,5

M0097H Radiography II, 7,5

M0096H Clinical pathology I specialisation radiography 7,5

M0100H Radiography III, 15

M0116H Pharmacology and pharmaceutical management within radiography, 7,5

M0102H Radiography, Science and research methods I, 7,5

M0101H Clinical pathology and anatomy II with focus on radiography, 15

M0103H Radiography IV, 15

Selection

The selection is based on 1-165 credits.

Course Aim

Upon completion of the course, the student shall be able to

- Describe and reflect critically on research ethics principles, as well as its importance in conducting scientific studies
- Identify and phrase relevant research questions within radiography as well as the choice of study design and how data may be collected, analysed, and compiled.
- Understand principles for systematically searching, evaluating, and quality-checking scientific articles
- Publicly discuss and examine in a constructive manner
- Apply academic writing principles regarding language, writing rules, and reference management
- Understand principles of presentation of results, and results and method discussion
- Formulate conclusions on how scientific research can contribute to the topics scientific basis
- Identify and evaluate the need for further knowledge in order to continuously develop scientific skills

Contents

- The research process
- Research ethics
- Study design
- Opponent/respondentship
- Quantitative method
- Qualitative method
- Quality review
- Literature studies
- Presentation of results
- Results and method discussion
- Academic writing

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 modules are implemented with integrated work forms that support the student's understanding, deep learning and autonomy. This is accomplished through knowledge retrieval, problem solving and critical reflection based on the objectives of the course. The student's learning is supported by lectures, independent study, individual and group assignments, as well as seminars.

Participation and the completion of laboratory work, seminars, and assignments are obligatory.

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 course objectives are examined through hand-in assignments, exams, and seminars. Alternative forms of examination may occur. To pass the entire course, passing grades are required on all parts of the course, and all compulsory parts must be completed.

Unauthorized aids during exams and assessments

If a student, by using unauthorized aids, tries to mislead during an exam or when a study performance is to be assessed, disciplinary measures may be taken. The term "unauthorized aids" refers to aids that the teacher has not previously specified as permissible aids and that may assist in solving the examination task. This means that all aids not specified as permissible are prohibited. The Swedish version has interpretative precedence in the event of a conflict.

Overlap

The course M0107H is equal to M0064H

This programme curriculum is valid from the spring semester of 2020 for all students who are admitted to the programme at that time. Programme coordinators and heads of department decide on individual study plans for students who have been admitted to a previous programme curriculum and resume their studies according to the current programme curriculum following a break in their studies.

If a course has ceased to be given or has undergone major changes, the students will be offered two opportunities for examination in the first year after the change has taken place, and then once a year for a further 2 years, based on the course syllabus that applied at the time of registration.

Course offered by

Department of Health, Education and Technology

Modules

Code	Description	Grade scale	Cr	Status	From period	Title
0001	Assignments	U G VG	2.5	Mandatory	A21	
0002	Seminars	U G#	2.5	Mandatory	A21	
0003	Examination	U G VG	2.5	Mandatory	A21	

Last revised

by Jenny Jäger, Director of Undergraduate Studies at the Department of Health, Education and Technology 2024-02-13

Syllabus established

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