

Course syllabus for

Introduction to Radiographic Research and Research Methodology, 15 credits

Introduktion till radiografisk forskning och forskningsmetodik, 15 hp This course syllabus is valid from autumn 2019.

Course code 2QA289

Course name Introduction to Radiographic Research and Research Methodology

Credits 15 credits

Form of Education Higher Education, study regulation 2007

Main field of study Radiography

Level Second cycle, has second-cycle course/s as entry requirements

Grading scale Fail (U) or pass (G)

Department Department of Clinical Science, Intervention and Technology

Decided by Education committee CLINTEC

Decision date 2019-01-24 Course syllabus valid from Autumn 2019

Specific entry requirements

Degree of Bachelor of Science in Diagnostic Radiology Nursing about 180 credits or Degree of Bachelor med main subject radiography. In addition to this is required completed courses of 45 credits at second cycle level. In addition, proficiency in Swedish and English equivalent to Swedish B/Swedish 3 and English A/English 6.

Objectives

After completing the course, the student should be able to:

- reflect and explain relationships between disciplinary research domain radiography and the knowledge that is produced in this field
- reflect on how the future radiology can influence and influence of current research
- compare and understand scientific concepts and methods in the radiographic research domain
- analyse and assess current problems in the radiographic disciplinary research domain
- describe the different stages from application for research education to publication
- apply a systematic working method to search critically review and interpret information as a basis for research plan
- apply the scientific writing process at writing of a research plan
- develop and state arguments in oral and written presentations

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• reflect on and apply ethical aspects in the own research plan

Content

The course is divided into three parts:

Radiography as field of research, 3.0 hp

Grading scale: GU

Aim with component is to promote the academic development in main field of study radiography. Course give student a deeply scientific understanding of the radiographic field by, based on radiographic examination methods and radiological diagnoses and interventions, focus on current issues and development tendencies in the area. By means of established scientific methods, these issues and development tendencies based on aspects of diagnostic quality, economics and availability are problematised.

Radiographic methods of research, 4.5 hp

Grading scale: GU

In this part learns oneself students understand and apply different methods for generating new knowledge, such as quantitative, qualitative methods and systematic literary surveys. Focus is placed at to understand and implement statistical calculations and qualitative analyses as well as literary surveys where mainly meta-analyses come to apply.

Strong emphasis comes also be placed at information retrieval and strategies to find relevant scientific literature. Student review and analyse this scientific literature.

To write a scientific proposal, 7.5 hp

Grading scale: GU

Component starts with a presentation of the different stages from application for research education to publication.

Thereafter formulate student, based on a during course defined research issues together with supervisor a research plan.

In component train student to develop and state arguments in oral and written presentations.

Teaching methods

Working methods for course is lectures, supervision and seminars.

Examination

Component *Radiography that field* is assessed through written and oral presentation of literary survey.

Component Radiographic research methods assess through written review based on course's literature.

Component *To write a research plan* assess by student write and present a research plan as well as review and objects on another student's work.

Students who do not pass a regular examination are entitled to re-examination on five more occasions. If the student has failed six examinations/tests, no additional examination is given. An examination occasion is valid as an occasion if the student has gone through the exam. Cases in which a student is registered for an examination but does not attend, will not be viewed as an examination occasion.

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Transitional provisions

Students will be allowed to take the examination up to one year after the closing of the course. The examination can be carried out according to an earlier literature list during a period of one year after the date of a renewal of the literature list.

Other directives

Evaluation of the course will be carried out according to the guidelines that are established by the Board of Education at Karolinska Institutet.

The course syllabus replaces the course syllabus 2QA231, Introduction to radiographic research and research methodology.

Language of instruction: Swedish

Literature and other teaching aids

Mandatory Literature

Ejlertsson, Göran

Statistik för hälsovetenskaperna

2., moderniserade och utök. uppl. : Lund : Studentlitteratur, 2012 - 303 s.

ISBN:978-91-44-07048-3 LIBRIS-ID:13374003

URL: Övningsmaterial

Library search

Forsberg, Christina; Wengström, Yvonne

Att göra systematiska litteraturstudier : värdering, analys och presentation av omvårdnadsforskning

4. rev. utg.: Stockholm: Natur & kultur, 2016 - 216 s.

ISBN:9789127146549 LIBRIS-ID:18897539

Library search

Malterud, Kirsti

Kvalitativa metoder i medicinsk forskning: en introduktion

3., [uppdaterade] uppl.: Lund: Studentlitteratur, 2014 - 286 s.

ISBN:9789144094984 LIBRIS-ID:16600544

Library search

Recommended Literature

Creswell, John W.

Research design: qualitative, quantitative, and mixed methods approaches

4th ed.: Thousand Oaks: SAGE Publications, c2014. - xxix, 273 s.

ISBN:9781452226095 LIBRIS-ID:14007632

Library search

Harris, Michael; Taylor, Gordon Medical Statistics Made Easy

3. ed.: Scion Publishing Ltd, 2014 - 116 s.

Course code: 2QA289

ISBN:978-1-907904-03-5 LIBRIS-ID:19217337

Library search

Renberg, Bo

Bra skrivet väl talat: handledning i skrivande och praktisk retorik

2., [rev.] uppl.: Lund: Studentlitteratur, 2013 - 177 s.

ISBN:9789144088242 LIBRIS-ID:14069868

Library search

Widerberg, Karin

Vetenskapligt skrivande: kreativa genvägar

Lund: Studentlitteratur, 2003 - 103 s.

ISBN:91-44-03040-1 LIBRIS-ID:9057016

Library search