Course syllabus for

Radiotherapy Nursing- Clinical Education, 7.5 credits

Verksamhetsförlagd utbildning inom strålbehandling, 7.5 hp
This course syllabus is valid from autumn 2021.
Please note that the course syllabus is available in the following versions:
Spring2014 , Autumn2021 , Spring2022

Course code	2ON012
Course name	Radiotherapy Nursing- Clinical Education
Credits	7.5 credits
Form of Education	Higher Education, study regulation 2007
Main field of study	Nursing
Level	AV - Second cycle
Grading scale	Pass, Fail
Department	Department of Neurobiology, Care Sciences and Society
Decided by	Programnämnd 9
Decision date	2013-11-28
Revised by	Education committee NVS
Last revision	2021-03-29
Course syllabus valid from	Autumn 2021

Specific entry requirements

A professional status qualification as a nurse awarded by the Swedish National Board of Health and Welfare.

A student who has failed the work-based education due to such a serious lack in terms of knowledge, skills or attitude that patient safety or patients' confidence in medical care is jeopardised is qualified to a new opportunity only when the individual action plan has been completed.

Objectives

The aim of the course is that the student should advance his/her practical knowledge and his/her understanding of radiotherapy and nursing in radiotherapy.

On completion of the course, the student should be able to:

- explain the process of unplanned and planned radiation treatment preparation such as: information, fixation/patient positioning, image processing, markings and documentation

- explain the procedure in target marking and definition of risk organs
- interpret a dose planning and treatment protocol. Carry out a simple dose planning
- give information and teaching to the patient before radiotherapy
- explain the process of re-start including security measures, verifications and measurements
- turn the theory of the treatment plan into the practice of treatment. Cancel, treat and understand the principles of the most commonly occurring radiotherapies.
- give information and teaching to the patient before radiotherapy and about evidence-based nursing actions in treatment reactions in, for example, oral cavity/throat, intestine, urinary bladder and skin
- demonstrate knowledge of documentation routines specific for radiotherapy. Account for current routines for safety and incidence reporting
- show ability to independently identify and reflect around the need of additional knowledge and skills within the subject area

Content

Placement in, i.e. therapy equipment, dose planning and computer tomography.

Teaching methods

Studies take place according to the LäraNära concept implying active learning independently or in collaboration with others interleaved with the course meetings, including i.a. seminars and presentations. Teaching is based on a problem-oriented and collaborative approach to learning in which forms of work provide opportunities for the student to take active responsibility for their learning. The used teaching methods are self-assessments, problem-solving, own reflection and analysis of situations are included in the concept. Läranära consists of a computer program distributed as a cd-rom or on Internet. It is connected to a web server, where information is collected. Work in groups and active participation in seminars and attendance at all scheduled group meetings is compulsory. For carrying out the course, access to a computer (PC) with Internet connection is assumed.

The examiner decides whether, and if so how, absence from or unfulfillment of compulsory course elements can be made up for. Study results cannot be reported until the student has participated in or fulfilled compulsory course elements, or compensated for any absence/ failure to fulfill in accordance with instructions from the examiner. Absence from or unfulfillment of a compulsory course element may imply that the student can not retake the element until the next time the course is offered.

Examination

For each study group and course, two compulsory course meetings of about a day each, will be organised. For participation in a course meeting, previous assignments should be approved. Active participation in the meetings is required for a pass-grade. The grading system is Failed/Passed.

Students who have not passed the regular examination are entitled to participate in five examinations. Students without approved results after three examinations can be offered to retake the course or parts of it once more; subject to availability. If the student has failed six examinations, no additional examination will be offered. Submission of a blank examination is regarded as an examination. Examination for which the student registered but not participated in does not count as an examination. Home examination that has been opened via the learning management system counts as an examination session even if the examination is not submitted. Late submissions of examinations are not accepted. Students who have not submitted on time are referred to reexamination.

The clinical training can be repeated once.

The examiner can immediately interrupt a student's clinical training if the student shows such serious deficiencies in knowledge, skills or attitudes that the patient´s safety of the patient´s trust for the health care is jeopardized. When clinical training is interrupted due to above mentioned reasons the student has

failed the examination and one period is considered consumed. In such cases, an individual action plan should be set up for required activities and examinations, before the student is given a possibility for a new clinical rotation in the course.

Literature and other teaching aids

Aus; Gunnarsson; Nodbrant

Brakyterapi med palladium-102

Läkartidningen, http://lakartidningen.se/2000/temp/pda21507.pdf : 1997 - nr 32-33

Bentel, Gunilla C.

Patient positioning and immobilization in radiation oncology

New York : McGraw-Hill, 1999 - 211 s.
ISBN:0-07-134158-7 (pbk)
Library search

Dean, David; Herbener, Thomas E.; Knopsnyder, Daniel

Cross-sectional human anatomy

Philadelphia : Lippincott Williams & Wilkins, 2007 - xiii, 191 s.
ISBN:978-0-683-30385-8 LIBRIS-ID:11728105
Library search

Degerfält, Jan

Strålbehandling : historik, fysik, omvårdnad

Lund : Studentlitteratur, 1998 - 204 s.
ISBN:91-44-00308-0 LIBRIS-ID:8352583
Library search

Jönsson, BA; Jönsson, L

Strålningsfysik och strålskydd

Medicinsk strålningsfysik, unds universitet ej publicerat arbete : 2006

Knöös

Fysikaliska data för radioterapifysik

Radiofysik Lund ej publicerat arbete : 1996

Stanton, Robert; Stinson, Donna

Applied physics for radiation oncology

Rev. ed. : Madison, Wisconsin : Medical Physics Publishing, 2009 - xv, 392 s.
ISBN:978-1-930524-40-8 LIBRIS-ID:11880947
Library search

Statens strålskyddsinstitut samlingstillstånd för strålbehandling och tillståndsvillkor

www.ssi.se :

Strålskyddslagen 1988:220

www.ssi.se :

Dobbs, Jane; Barrett, Ann; Ash, Daniel

Practical radiotherapy planning.

3rd ed. / b Jane Dobbs, Ann Barrett, Dan Ash : London : Arnold, c1999 - vi, 394 p., [8] p. of plates
ISBN:0-340-70631-7

Library search

ICRU report nr 50

Prescribing, Recording and Reporting Photon Beam Therapy

International Commission on RadiationUnits and Measurements, www.icru.org, 1993

Isaksson, Mats

Grundläggande strålningsfysik

2., [kompletterade och uppdaterade] uppl. : Lund : Studentlitteratur, 2011 - 330 s.
ISBN:9789144066196 LIBRIS-ID:11957596

Library search

Khan, Faiz M.

The physics of radiation therapy

4th ed. : Philadelphia : Lippincott Williams & Wilkins, c2010 - 531 s. + appendix
ISBN:9780781788564 LIBRIS-ID:11711307

Library search