

Course: Radiographic technique

Study program: Three years of professional studies for graduate radiological technologist

Code: SRT – 111

Study year: first

Semester: first and second

Total number of classes: 300

Credits: 17

Course type: compulsory

Prerequisites: none

Performance: Chair of radiology

Teacher in charge: prof. d-r Vasilcho Spirov

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Keywords: Studies for radiological technologists, professional courses, radiographic technique, x-ray imaging

Study goals:

Introduction to the techniques of imaging in radiology.

Standard and special recording screenings.

Patient positioning during recording.

Positioning of the part of the body that is being recorded.

Structural representation of the recorded parts.

Summary:

Theory lessons (90 classes)

Code of technologist ethics

Recording upper extremity, hand, wrist, forearm, elbow

Recording lower extremity, foot, ankle, lower leg , knee, femoral bone

Recording shoulder

Recording clavicle

Recording scapula

Recording sternum and ribs
Recording pelvis and pelvic bones
Hip recording

Practical lessons (90 classes)

Practical performance of the acquired theoretical knowledge

Practice (120 classes)

Practice is mandatory and is performed at various departments under the guidance of a mentor-professor and radiological technologist responsible for that department. The student is obliged to engage in all activities during full working time, and to keep a daybook of his/hers activities.

Structure: Theory lessons (90 classes)
Practical lessons (90 classes)
Practice (120 classes)

Methods of Learning: Lectures, tutorials, seminars, workshops, practice

Provided study results: Knowledge and understanding:
The student will acquire knowledge of the basic principles of radiological recording anatomical structures of the human body.

Key skills specific recommendations of teaching
The student will be trained for application of theoretical knowledge in practice.
The student is responsible to monitor actively all the activities, including participation in ongoing knowledge checks to get a signature.

Scoring of students' activities:

type of activity	points
theory lessons	5 – 10
practical lessons	10 – 20
continuous checking	20 – 30
final exam	25 – 40
total	60 – 100

Presence on theory lessons:

51% - 60%	05 points
61% - 70%	06 points
71% - 80%	08 points
81% - 90%	09 points
91% - 100%	10 points

Practical lessons: each class carries out 0.1 points. (90 classes)

presence – 0,05 points

activity -- 0,05 points

Successfulness of the practice:

presence:

51% - 60% 0,5 points

61% - 70% 0,5 points

71% - 80% 1,0 points

81% - 90% 1,5 points

91% - 100% 2,0 points

activity:

satisfactory: 5 points

good: 7 points

excellent: 9 points

Knowledge checking: Continuous checking (colloquium)

Student is required to regularly attend theoretical and practical lessons to get eligible to approach the continuous checking. Checkings are in written form (multiple-choice test). Student must approach colloquium, otherwise do not acquire the right of getting signature at the end of the semester.

The student is obliged to get a score of minimum points (60%) of the continuous checks when approaching the final exam.

Final exam

Student who has passed colloquiums takes the final exam-practical. It consists of three tasks (skills) that students should carry out. Taking the practical exam is allowed only after the student has been completed the practice, he/she will get a signature on the course and you will win minimum of 60% of the score of each colloquium separately.

Setting up of a full assessment

An assessment of the overall exam is obtained according to the table of grades based on the sum of points from all activities, including ongoing checks and final exam. Passed colloquia, as a condition of taking the final exam, are valid for six consecutive sessions (regardless of whether the student gets to the exam) after which the student retakes the course.

Irregular studies

40% of the projected theoretical lessons and 40% of projected practice is performed.

Practice is being organized under agreement with the students. The exam is performed in the exam session and consists of multiple-choice test. Practical exam is performed after the test has been passed.

The grade of the overall exam is obtained according to the table of grades, based on the scores obtained from all activities

Teaching books

Textbook of radiographic positioning and related anatomy. Seventh edition
Kenneth L. Bontrager, John P. Lampignano, is published by arrangement with
Elsevier Inc. Tabernakul 2011

The WHO manual of diagnostic imaging, Radiographic Technique and
Projections - author Staffan Sandstrom M.D., editors Harald Ostensen M.D.,
Holger Pettersson M.D.

M. Vrcakovski. Fundamentals of radiographic technique script.