

Tampere University of Applied Sciences
Degree Programme in Radiography and Radiotherapy

Diagnostic Radiography and Safe Medical Use of Ionizing Radiation

Exchange curriculum

Tiina Säilä



2025

Tampere University of Applied Sciences

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More info: <https://www.tuni.fi/en/information-exchange-students-tampere-university-applied-sciences>

Degree Programme in Radiography and Radiotherapy

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INSTRUCTIONS FOR APPLICANTS

More information: <https://www.tuni.fi/en/study-with-us/exchange-studies/how-apply-exchange-studies-tampere-university-applied-sciences>

Exchange students should first get **approval from their home university** for their planned exchange. All applicants must be officially **nominated** by their home university. **After TAMK has received the nomination from your home university, you will receive further instructions on how to fill in your application and download the required documents online.**

The application deadlines for exchange studies in the Spring Semester 2025 (January - May) is **15 October 2024** for Radiography and Radiotherapy students.

The nomination deadline is two weeks before the application deadline. For detailed nomination instructions, please see the information provided below in the Nomination instructions section.

TAMK uses SoleMOVE online mobility programme for receiving the applications. **Please note that TAMK does not accept applications sent by post!**

INSTRUCTIONS FOR ACCEPTED EXCHANGE STUDENTS

Students to Radiography and Radiotherapy must send max. 30 days old negative **MRSA** (Methicillin Resistant Staphylococcus Aureus) test result at least 1 week before arrival. The test swabs must be taken from the nose AND throat (and possible other infected areas) and results should be clearly indicated in English!

Vaccination: Students **have to bring the certificate of vaccination** or written report about having measles, mumps (parotitis), rubella and chickenpox (varicella). These are Tampere University hospital's requirement. They recommend also having tetanus, diphtheria and B-hepatitis vaccination before clinical training.

After 1.1.2018 you need to have **influenza vaccine** when have clinical training during influenza season.

STUDENT INSTRUCTIONS FOR A SUPERVISED PRACTICAL TRAINING

Dosimeters: Personal dosimeter (TLD) (+ finger dosimeter for NUC if needed) should be brought by the students.

Personal name badge: The name badge should be brought by the students. It is obliged in the hospitals.

Uniforms and shoes: The students are expected to wear official clothing. Hospitals offer uniforms and take care of laundry. Students must have shoes of their own (for indoor use only). Students have a responsibility and obligation to wear the protective clothing designated and maintained by the employer at the workplace during working hours and when carrying out work duties.

Working hours: The student's working hours are 37,5 hours (if 5 days) per week, an average of 7,5 hours per day. Exceptions to working hours must be agreed with the supervising radiographer and the teacher.

If the student gets ill, he/she must immediately inform the supervising radiographer (via phone) and the teacher (via email) about the absence. During the sick leave student doesn't earn any study credits. If the student is ill longer than three days s/he must get a nurse's or a doctor's statement on the illness for the home university.

Communication to the Practical Placement

The student is expected to contact the supervising radiographer beforehand, even if he/she gets prior information from the teacher.

Addressing people: The student is expected to address older customers / patients formally (e.g. in German *Sie* instead of *du*, in Finnish *te* instead of *sinä*). Informal addressing should be used only if the customer / patient initiates it.

Ethical principles: The student must abide to the Law on Status and Rights of the Patient and the ethical principles of radiography in all Practical Placement companies.

The ethical principles state e.g: The patient has a right to be treated in a good and human way, and his/her personal convictions and privacy must be respected.

The patient files are confidential. This is an essential part of creating a good relationship with the patient.

Diagnostic Radiography and Safe Medical Use of Ionizing Radiation

Learning outcomes of the study module

Students

- know the European Union legislation, national radiation legislation and directives given by authorities related to safe medical use of ionizing radiation
- can act as experts of safe medical use of ionizing radiation
- know the operating principles of x-ray diagnostic equipment and their auxiliary equipment and can use them safely
- can act as members of working teams in a different diagnostic radiography situations and procedures related to them
- can act appreciatively and with respect towards patients, their relatives and co-workers
- can reflect their own learning and have a positive attitude towards feedback and are willing to continuously develop themselves
- can plan, implement, document and evaluate radiological examination of patients of different ages as members of a team in clinical training according to safe medical use of ionizing radiation
- can make ethically justified choices and solutions which promote human dignity, equity, equality and sustainable development
- are interested in their own learning about diagnostic radiography and safe medical use of ionizing radiation and are able to reflect their own learning and have a positive attitude towards feedback and are willing to continuously develop themselves

Course contents

- Clinical Training at different modalities based on students own learning aims: MRI, CT, fluoroscopy, general skeletal radiography, dental radiography (CPCT), Acute and emergency radiography.

Credits theory	Practice at school:	Practice:			Other credits: (Language & culture, orientation)
		Credits	Weeks with patients	Total hours of practice:	
4 ECTS Radiation safety 2 ECTS project + QA project 2 ECTS	2 ECTS Go teaching in conventional radiography	10 ECTS 1 ECTS = 25h student's work	7 weeks 1 week is 37,5h clinical practice (7,5h /day)	250 h 10 ECTS * 25h = 250 h	Language and Culture 3 ECTS + 1 ECTS Orientation

Weeks	The plan in 2025		
1.-2. weeks	<ul style="list-style-type: none"> • Orientation at TAMK 3.1.2025 • 	1 ECTS	Lectures e-learning
2.-13.weeks	<ul style="list-style-type: none"> • 6.1.2025 Epiphany day (national holiday) • Finnish language for Exchange students, the schedule will be updated later (2-13 weeks) 	3 ECTS	Lectures Test
2.-13. weeks	<ul style="list-style-type: none"> • Radiation protection in the field of Radiology –project • Quality assurance in the field of Radiology -project 	2 ECTS 2 ECTS	Clinical work e-learning report seminar
2.-7. weeks	<ul style="list-style-type: none"> • Introduction to Degree Programme in Radiography and Radiotherapy • Introduction to Tampere University Hospital • Clinical practice will start after introduction 	10 ECTS	Participation in Radiology Procedures
8.week	<ul style="list-style-type: none"> • Go teaching project week 8, part one 		act as an assistant teacher
9. week	<ul style="list-style-type: none"> • Holiday for one week, in Finland we have "skiing vacation") 		
10. week	<ul style="list-style-type: none"> • Clinical practice will continue • Independent work (to finalize the project works) 		Clinical practice in NUC or Radiology
11. week	<ul style="list-style-type: none"> • Project – presentations at the hospital and at TAMK • Evaluation of the whole program • Some free days also 		Project report, presentation
12.-13. weeks	<ul style="list-style-type: none"> • Go teaching project week 12, part two • evaluation, paperwork etc. 		act as an assistant teacher