

Postgraduate Certificate Radiation Oncology for Nursing





Postgraduate Certificate Radiation Oncology for Nursing

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Global University
- » Credits: 6 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: www.techtute.com/us/nursing/postgraduate-certificate/radiation-oncology-nursing

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01

Introduction

There is no doubt that nurses play a crucial role during the whole radiotherapy process in cancer patients. In fact, Radiotherapy has important implications in the health of individuals, so these health professionals must be well prepared to identify and manage possible side effects and complications that may arise during the process. For this reason, this update opportunity arises, with which the graduates of Nursing will go through the different aspects of Radiotherapy, including treatments, the radiotherapeutic process, complications and specific care in different locations of the body. All this always from a convenient online mode in which the enrollee will manage the academic resources on their own.





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Update yourself over 6 weeks in the latest advances in Radiation Oncology to enhance your care activity to patients with cancer”

The use of ionizing radiation is becoming increasingly important in the fight against cancer, which undoubtedly requires a multidisciplinary team in hospitals for its proper implementation and monitoring. Nursing, as a key member of this team, plays a fundamental role in patient care and in monitoring the side effects of treatment. For this reason, these healthcare professionals must continually update their knowledge in accordance with the latest scientific advances as they emerge.

In this context, the present Postgraduate Certificate is a unique academic opportunity in the market to provide a high level of preparation to nurses in the care of patients receiving radiotherapy treatment, which will result in a comprehensive and high quality care. To this end, the techniques and equipment used in External Radiation Therapy will be explored, as well as the complete radiotherapeutic process, including initial assessment, simulation and treatment planning. The specific care of each cancer location, such as head and neck, breast, abdominopelvic region, CNS and other locations, will also be addressed.

Undoubtedly, a very complete academic experience designed to add value to the students' syllabus. In addition, the Postgraduate Certificate is taught completely online, so it is highly compatible with any personal or professional obligation of the student. It also has a great teaching team, made up of professionals specialized in Radiation Oncology and Nursing. Therefore, the nurses will have all the ingredients at their disposal to launch their professional career in this field.

This **Postgraduate Certificate in Radiation Oncology for Nursing** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ♦ The development of practical case studies presented by experts in Radiation Oncology for Nursing
- ♦ Graphic, schematic, and practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional practice
- ♦ Practical exercises where the self-assessment process can be carried out to improve learning
- ♦ Its special emphasis on innovative methodologies
- ♦ Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- ♦ Content that is accessible from any fixed or portable device with an Internet connection



Do not miss the opportunity to take this program and master all phases of the radiotherapy process"

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Take a complete tour of Palliative Radiotherapy to update your pain management strategies”

The program’s teaching staff includes professionals from the sector who contribute their work experience to this training program, as well as renowned specialists from leading societies and prestigious universities.

Its multimedia content, developed with the latest educational technology, will provide the professionals with situated and contextual learning, i.e., a simulated environment that will provide an immersive education programmed to learn in real situations.

This program’s design focuses on Problem-Based Learning, through which the professionals must try to solve the different professional practice situations that arise during the academic program. For this purpose, the students will be assisted by an innovative interactive video system created by renowned experts.

Enhance your skills in emergency radiotherapy processes by addressing cases of hemorrhage or symptomatic syndromes through practical cases.

Prepare yourself to act effectively in the face of potential complications in Radiation Oncology, maximizing the care to be performed.



02 Objectives

The main objective of the Postgraduate Certificate is to turn the students into highly prepared professionals in the different uses of Radiation Oncology. In the same way, the nurses will see their care strategies enhanced in such a way that they will master all the applications of the radiotherapeutic process, considering the necessary human capital and the required instrumentation. Always based on the latest advances in this field.



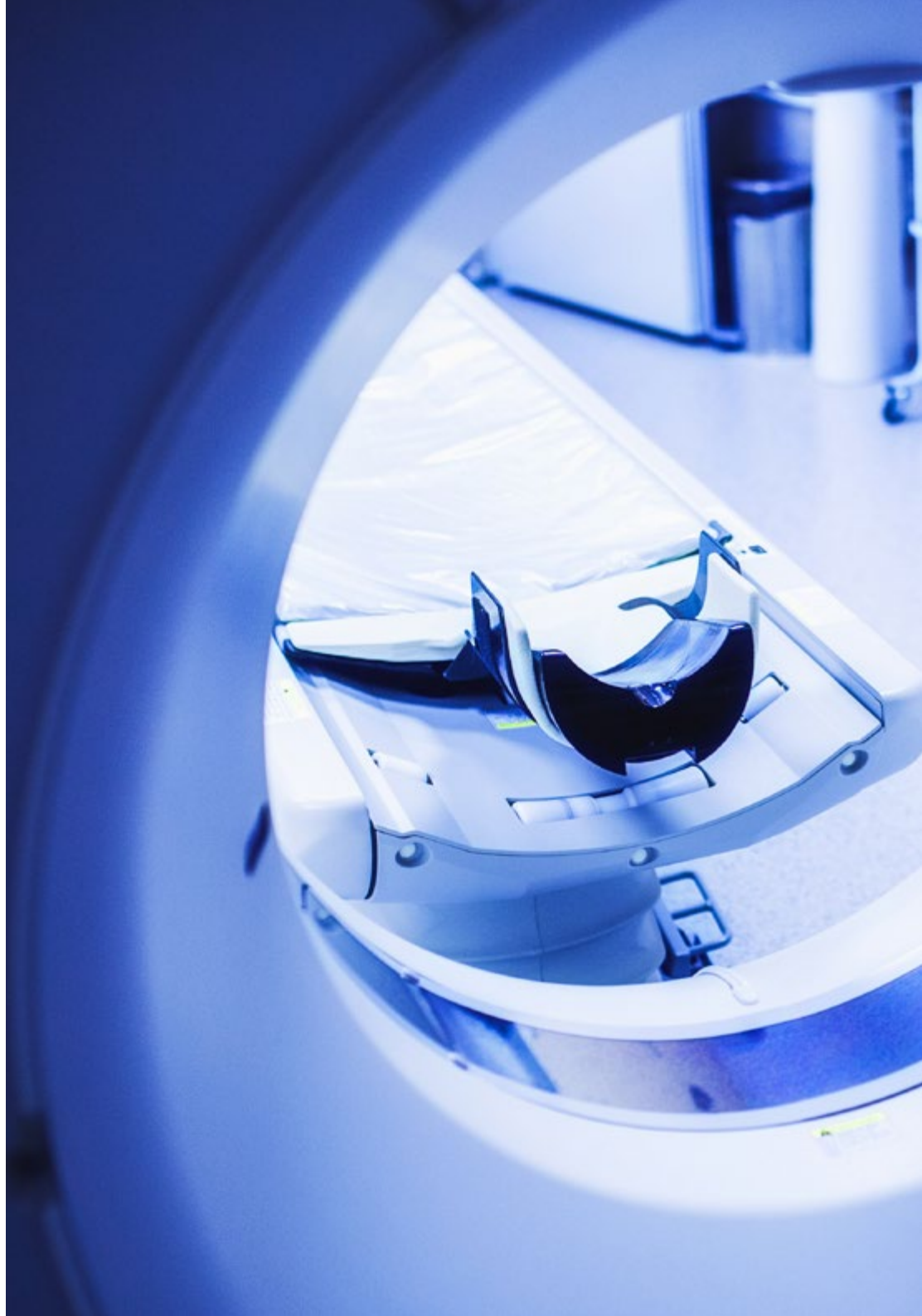


You will be able to implement the nursing care process in the different interventions carried out in the service"



General Objectives

- ◆ Promote work strategies based on the practical knowledge of a tertiary level hospital and its application in Diagnostic Imaging, Nuclear Medicine and Radiation Oncology services
- ◆ Favor the enhancement of technical skills and abilities through care procedures and case studies
- ◆ Provide nurses with a process of updating their knowledge in the field of Radiology
- ◆ Be up to date with the care management and organization of the Diagnostic Imaging and Treatment Area, in order to optimize the operation of the Radiology Service
- ◆ Develop skills and competencies in nurses for their performance in the nursing consultation in the Diagnostic Imaging and Treatment Department (DTI)
- ◆ Expand nurses' knowledge of radiation oncology, interventional vascular radiology and neuroradiology to improve patient care in these specific areas
- ◆ Develop nurses' skills in performing image-guided procedures, including breast and brachytherapy, to improve the quality of patient care and optimize clinical outcomes





Specific Objectives

- ◆ Discover what is Radiation Oncology and its uses
- ◆ Delve into the human capital and the necessary material of this Service
- ◆ Describe the applications of the radiotherapeutic process
- ◆ Implement the nursing care process in the different interventions carried out in the department



Don't think twice and sign up to expertly manage the latest care tools that will allow you to perform advanced Ostomy care"

03

Course Management

In order to teach this Postgraduate Certificate, TECH has opted for true eminent nurses who have dedicated their professional careers to Radiological Nursing. In this sense, students will benefit from the experience of professionals who have supervised the Radiation Oncology service of leading international clinical institutions. In addition, they have been part of important research projects in this field, so they will satisfy even the most ambitious expectations of the students.





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Get all the keys to Radiation Oncology with unlimited access to a Virtual Campus that collects the contributions of these experts"

Management



Ms. Viciano Fernández, Carolina

- Nurse in the Radiodiagnosis and Nuclear Medicine
- Postgraduate Certificate in Nursing
- Professional Master's Degree in Pediatric Nursing
- University Specialist in Emergency and Catastrophe Nursing
- University Specialist in Nursing in the Surgical Area
- Nuclear Medicine Radioactive Installations Operator License by the Nuclear Safety Council



Ms. García Argüelles, MARÍA Noelia

- Area Supervisor of Diagnostic Imaging and Treatment at the Asturias University Central Hospital
- Professor in the Department of Medicine at the University of Oviedo
- Professor at numerous conferences and congresses, including the Congress of the Society of Radiological Nursing
- Postgraduate Certificate in Nursing
- Professional Master's Degree in Prevention Management in the Company
- Professional Master's Degree in Urgency, Emergencies and Catastrophes
- Member of the panel of auditors authorized by the Quality Assessment Unit of the Health Service of the Principality of Asturias
- Certificate of Pedagogical Aptitude for Secondary Education Teachers
- Radioactive Facilities Operator License in Nuclear Medicine by the Nuclear Safety Council



Professors

Ms. Rodríguez Manzano, María Ángeles

- ◆ Supervisor of the Radiation Oncology Service at the Central University Hospital of Asturias
- ◆ Teaching collaborator in AGORASTUR, training in theoretical and practical workshops for auxiliary nursing care technicians
- ◆ Postgraduate Certificate in Nursing
- ◆ Postgraduate Diploma in Hemotherapy
- ◆ Specialist in Intensive Care Nursing
- ◆ Postgraduate Diploma in Dialysis
- ◆ Specialist in Family and Community Nursing
- ◆ Radioactive Facilities Operator License in Radiotherapy. Nuclear Safety Council
- ◆ Teaching collaborator in AGORASTUR, training in theoretical and practical workshops for auxiliary nursing care technicians

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Take the opportunity to learn about the latest advances in this field in order to apply it to your daily practice"

04

Structure and Content

The Postgraduate Certificate in Radiation Oncology for Nursing has a structure and content designed to offer a completely flexible and accessible learning experience. The entire program is delivered 100% online, which allows students to access the material and distribute the study sessions at any time and place that is most convenient for them. In addition, Relearning's pedagogical methodology will facilitate a faster internalization of the topics, presenting the ideas in dynamic resources such as video summaries, interactive diagrams or self-knowledge exercises.



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Linear accelerators, simulation equipment... All the key aspects of ionizing radiation treatments are covered in this syllabus"

Module 1. Radiation Oncology

- 1.1. What is Radiotherapy?
 - 1.1.1. Introduction
 - 1.1.2. Ionizing radiation and cancer treatment
 - 1.1.3. Use of ionizing radiation in benign pathologies
 - 1.1.4. Types of Radiotherapy
- 1.2. Ionizing radiation treatments External Radiotherapy
 - 1.2.1. Linear Accelerators
 - 1.2.2. Simulation equipment
 - 1.2.3. Different treatments with external radiotherapy
 - 1.2.3.1. Three-dimensional radiotherapy RTE 3D
 - 1.2.3.2. Intensity modulated radiotherapy IMRT/ VMAT
 - 1.2.3.3. Stereotactic radiation therapy SBRT
 - 1.2.3.4. Image-guided radiation therapy Radiosurgery (SRS)
 - 1.2.3.5. Proton beam therapy
- 1.3. The radiotherapeutic process
 - 1.3.1. Initial evaluation and therapeutic decision
 - 1.3.2. Simulation
 - 1.3.2.1. Masks and other immobilization systems
 - 1.3.2.2. Nursing Consultation
 - 1.3.3. Delineation or localization of volumes Treatment planning Treatment Verification
- 1.4. Head and Neck Radiotherapy
 - 1.4.1. Introduction
 - 1.4.2. Nursing consultation at the start of treatment
 - 1.4.3. Potential complications and nursing care
 - 1.4.4. Specific ostomy care
- 1.5. Breast radiotherapy
 - 1.5.1. Introduction
 - 1.5.2. Nursing consultation at the beginning of treatment Nursing indications
 - 1.5.3. Potential complications and nursing care





- 1.6. Abdomino-pelvic radiotherapy
 - 1.6.1. Introduction
 - 1.6.2. Nursing consultation at the beginning of treatment Nursing indications
 - 1.6.3. Potential complications and nursing care
- 1.7. CNS Radiotherapy
 - 1.7.1. Introduction
 - 1.7.2. Nursing consultation at the beginning of treatment Nursing indications
 - 1.7.3. Potential complications and nursing care
- 1.8. Radiotherapy in other locations
 - 1.8.1. RTE Lung. Nursing Care
 - 1.8.2. RTE skin. Nursing Care
 - 1.8.3. RTE bone localization Nursing care
 - 1.8.4. Total Body irradiation. TBI
- 1.9. Palliative Radiotherapy
 - 1.9.1. Introduction
 - 1.9.2. Pain Management
 - 1.9.3. Psychological Aspects
- 1.10. Radiotherapy Emergencies
 - 1.10.1. Introduction
 - 1.10.2. Vena Cava Syndrome
 - 1.10.3. Compressive syndromes
 - 1.10.4. Hemorrhages



Examine in detail the effects of Radiation Therapy on the skin, CNS or Breast through this syllabus. Enroll now!"

05

Methodology

This academic program offers students a different way of learning. Our methodology uses a cyclical learning approach: **Relearning**.

This teaching system is used, for example, in the most prestigious medical schools in the world, and major publications such as the **New England Journal of Medicine** have considered it to be one of the most effective.





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Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"

At TECH Nursing School we use the Case Method

In a given situation, what should a professional do? Throughout the program, students will face multiple simulated clinical cases, based on real patients, in which they will have to do research, establish hypotheses, and ultimately resolve the situation. There is an abundance of scientific evidence on the effectiveness of the method. Nurses learn better, faster, and more sustainably over time.

With TECH, nurses can experience a learning methodology that is shaking the foundations of traditional universities around the world.



According to Dr. Gérvas, the clinical case is the annotated presentation of a patient, or group of patients, which becomes a "case", an example or model that illustrates some peculiar clinical component, either because of its teaching power or because of its uniqueness or rarity. It is essential that the case is based on current professional life, in an attempt to recreate the real conditions in professional nursing practice.

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Did you know that this method was developed in 1912, at Harvard, for law students? The case method consisted of presenting students with real-life, complex situations for them to make decisions and justify their decisions on how to solve them. In 1924, Harvard adopted it as a standard teaching method”

The effectiveness of the method is justified by four fundamental achievements:

1. Nurses who follow this method not only grasp concepts, but also develop their mental capacity, by evaluating real situations and applying their knowledge.
2. The learning process has a clear focus on practical skills that allow the nursing professional to better integrate knowledge acquisition into the hospital setting or primary care.
3. Ideas and concepts are understood more efficiently, given that the example situations are based on real-life.
4. Students like to feel that the effort they put into their studies is worthwhile. This then translates into a greater interest in learning and more time dedicated to working on the course.



Relearning Methodology

At TECH we enhance the case method with the best 100% online teaching methodology available: Relearning.

This university is the first in the world to combine case studies with a 100% online learning system based on repetition combining a minimum of 8 different elements in each lesson, which is a real revolution compared to the simple study and analysis of cases.



The nurse will learn through real cases and by solving complex situations in simulated learning environments. These simulations are developed using state-of-the-art software to facilitate immersive learning.

At the forefront of world teaching, the Relearning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best online university (Columbia University).

With this methodology we have trained more than 175,000 nurses with unprecedented success in all specialities regardless of practical workload. Our pedagogical methodology is developed in a highly competitive environment, with a university student body with a strong socioeconomic profile and an average age of 43.5 years old.

Relearning will allow you to learn with less effort and better performance, involving you more in your specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to success.

In our program, learning is not a linear process, but rather a spiral (learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

The overall score obtained by TECH's learning system is 8.01, according to the highest international standards.



This program offers the best educational material, prepared with professionals in mind:



Study Material

All teaching material is produced by the specialists who teach the course, specifically for the course, so that the teaching content is really specific and precise.

These contents are then applied to the audiovisual format, to create the TECH online working method. All this, with the latest techniques that offer high quality pieces in each and every one of the materials that are made available to the student.



Nursing Techniques and Procedures on Video

We introduce you to the latest techniques, to the latest educational advances, to the forefront of current medical techniques. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, you can watch them as many times as you want.



Interactive Summaries

The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



Additional Reading

Recent articles, consensus documents and international guidelines, among others. In TECH's virtual library, students will have access to everything they need to complete their course.





Expert-Led Case Studies and Case Analysis

Effective learning ought to be contextual. Therefore, TECH presents real cases in which the expert will guide students, focusing on and solving the different situations: a clear and direct way to achieve the highest degree of understanding.



Testing & Retesting

We periodically evaluate and re-evaluate students' knowledge throughout the program, through assessment and self-assessment activities and exercises, so that they can see how they are achieving their goals.



Classes

There is scientific evidence suggesting that observing third-party experts can be useful.

Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.



Quick Action Guides

TECH offers the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical, and effective way to help students progress in their learning.



06

Certificate

The Postgraduate Certificate in Radiation Oncology for Nursing guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Global University.



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Successfully complete this program and receive your university qualification without having to travel or fill out laborious paperwork”

This program will allow you to obtain your **Postgraduate Certificate in Radiation Oncology for Nursing** endorsed by **TECH Global University**, the world's largest online university.

TECH Global University is an official European University publicly recognized by the Government of Andorra ([official bulletin](#)). Andorra is part of the European Higher Education Area (EHEA) since 2003. The EHEA is an initiative promoted by the European Union that aims to organize the international training framework and harmonize the higher education systems of the member countries of this space. The project promotes common values, the implementation of collaborative tools and strengthening its quality assurance mechanisms to enhance collaboration and mobility among students, researchers and academics.

This **TECH Global University** title is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Certificate in Radiation Oncology for Nursing**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**





Postgraduate Certificate Radiation Oncology for Nursing

- » Modality: online
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- » Credits: 6 ECTS
- » Schedule: at your own pace
- » Exams: online

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