

Professional Master's Degree

Operating Room Nursing and Intraoperative Care

Endorsed by:



ASOCIACIÓN
ESPAÑOLA
DE ENFERMERÍA
QUIRÚRGICA

tech technological
university



Professional Master's Degree Operating Room Nursing and Intraoperative Care

- » Modality: online
- » Duration: 12 months
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: www.techtitute.com/in/nursing/professional-master-degree/master-operating-room-nursing-intraoperative-care

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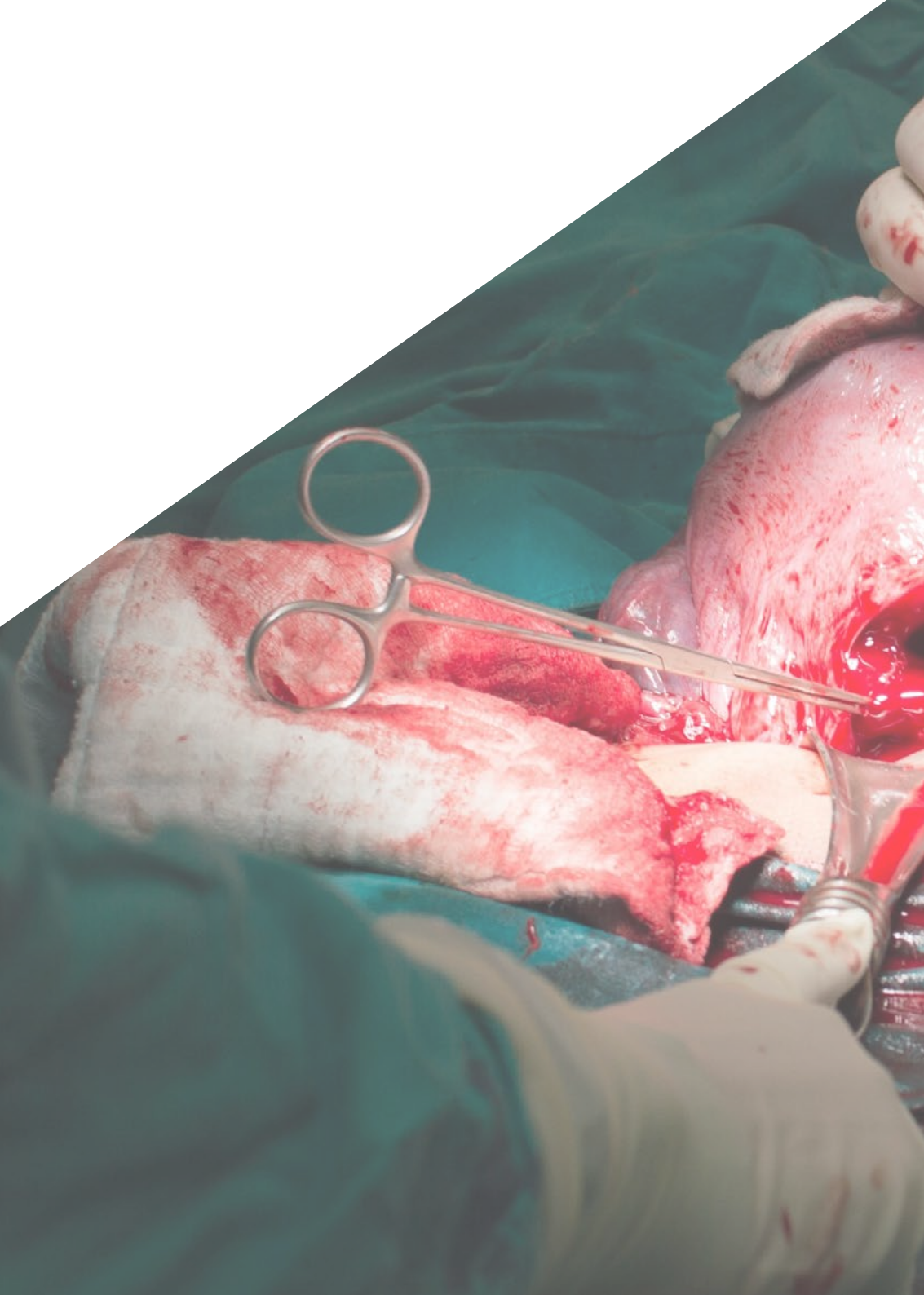
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01

Introduction

The surgical area presents specific characteristics, different from the rest of the departments where nursing care activities are carried out. The evolution of techniques, as well as technological advances, means that nursing professionals need to undergo constant training, to be able to provide excellent surgical care. This program allows professionals to expand their knowledge in a practical way and adapting to their needs.



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Success and professional recognition in the operating room is not only achieved with personal qualities; it is, above all, a work of perseverance, method and organization. This Professional Master's Degree helps you to expand your knowledge and increase your skill level in surgical procedures"

The field of surgical technology is constantly expanding, and hospital managers are increasingly looking to recruit professionals whose profile is adapted to the requirements of their job, and who are qualified and endorsed for carrying out this type of work. Therefore, a new team awareness has been developed among the professionals in the surgical field. They continue to enrich their professional skills in this field every day, in order to meet the needs of new techniques and care that come with the advances in surgery as a whole.

The advances in surgical techniques, as well as the specialist knowledge related to the field of surgery, requires nursing professionals to undergo continuous training and keep their knowledge up to date. Staying up to date with the latest procedures allows for better quality care of patients throughout the surgical procedure, and not knowing the latest information can put the patient's safety at risk.

Each of the wide variety of surgical interventions that are performed requires a specific procedure, a specific technique and the exclusive surgical material for that intervention. One thing they all have in common is a series of steps and rules that all team members should know in detail. They must also know the general functioning of the surgical department in order to prevent and avoid common risks while carrying out professional work. Bad practice in this specialist department can cause irreparable damage, and can even be fatal for the patient.

This program is focused on updating the knowledge of nursing professionals who practice, or want to practice, in the field of surgery. This course allows them to increase their professional skillset in caring for surgical patients before, during and after surgical intervention.

This **Professional Master's Degree in Operating Room Nursing and Intraoperative Care** contains the most complete and up to date scientific program on the market. The most important features include:

- ♦ Clinical cases presented by nursing professionals who are experts in patient care in surgery and other specialities. The graphic, schematic, and practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional practice
- ♦ More than 100 videos to learn about surgical procedures in detail
- ♦ The latest diagnostic-therapeutic techniques on professional nursing practice with surgical patients
- ♦ Comprehensive systematized action plans for the main pathologies in the operating room
- ♦ Practical workshops on sutures and other techniques performed by nurses
- ♦ An algorithm-based interactive learning system for decision-making in the clinical situations presented throughout the course
- ♦ Special emphasis on test-based medicine and research methodologies in intraoperative care
- ♦ All of this will be complemented by 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



The Professional Master's Degree in Operating Room Nursing and Intraoperative Care includes real clinical cases and activities to bring the program content closer to real life daily surgical practice"

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This Professional Master's Degree may be the best investment you can make when selecting a refresher program, for two reasons: in addition to updating your knowledge of Operating Room Nursing and Intraoperative Care, you will obtain a Professional Master's Degree from TECH Technological University”

In this Professional Master's Degree, the program is aimed at updating the knowledge of nursing professionals who perform their work in the field of surgery, and who require a high level of qualification. The content is based on the latest scientific evidence and organized in an efficient way, to integrate theoretical knowledge into nursing practice. The theoretical-practical elements allow professionals to update their knowledge and allow them to make decisions more confidently when dealing with patients.

The multimedia content developed with the latest educational technology will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide an immersive training program to train in real situations.

This program is designed around Problem-Based Learning, whereby the student will must try to solve the different professional practice situations that arise during the course. For this reason, you will be assisted by an innovative, interactive video system created by renowned and experienced experts in the field of radiology with extensive teaching experience.

Update your knowledge with the Professional Master's Degree in Operating Room Nursing and Intraoperative Care in a practical way, adapted to your needs.

The Professional Master's Degree program offers training in simulated environments, which provides an immersive learning experience designed to train for real-life situations.



02 Objectives

This Professional Master's Degree is oriented towards effectively updating nursing professionals' knowledge, thereby enabling them to provide quality care based on the latest scientific evidence that guarantees patient safety.





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This refresher program will generate a sense of security when practicing nursing, which will help you grow both personally and professionally”



General Objective

- ♦ Gain up to date knowledge in providing nursing care to surgical patients during the entire surgical process, with the aim of improving the quality and safety of your nursing praxis both in surgery and the following period of rehabilitation. This is done by developing clinically effective interventions in the care provided within the surgery department in a hospital setting

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The constant updating of knowledge is key to offering the best patient care in”





Specific Objectives

Module 1. Surgical Nurses

- ♦ Identify opportunities in the application of acquired theoretical knowledge and the tasks and techniques carried out in the operating room
- ♦ Assess the success of teamwork with the aim of achieving set goals
- ♦ Prevent mistakes and accidents which could put the general objective of nursing professionals at risk: the protection of the patient in the field of surgery
- ♦ Establish a treatment with the patient and their family that goes beyond the simple application of nursing techniques, and to consider all aspects of the patient's condition as whole
- ♦ Describe the role of the nurse in the integral care of a patient during the surgical process
- ♦ Evaluate the importance of nursing records in the field of surgery and describe the necessary procedures for correctly implementing them
- ♦ Explain expert nursing care related to the safety of a surgical patient

Module 2. Architecture, Installations and Equipment in the Surgical Department

- ♦ Describe the most common surgical situations in a hospital environment, and the role of the nursing professional in these situations
- ♦ Master the characteristics of operating rooms in depth
- ♦ Understand and analyze space distribution in an operating room
- ♦ Review the different existing surgical equipment
- ♦ Analyze the instruments required for laser surgery
- ♦ Analyze surgical procedure and identify the key aspects to achieve adequate control over the quality and management of resources

Module 3. Concept of Asepsis and Infection Control: Sterilization and Disinfection

- ♦ Revise the key principles of surgical asepsis
- ♦ Analyze the concept of infection
- ♦ Master different techniques to control infection
- ♦ Understand the need for sterile techniques
- ♦ Identify different sterile techniques and examples of their use

Module 4. Preoperative Preparation of the Surgical Patient

- ♦ Analyze the fundamentals of communication with surgical patients
- ♦ Know how to respond to the needs of surgical patients, including psychological issues, adaptation and informed consent
- ♦ Know how to prepare and assess pre-surgical patients physically and nutritionally
- ♦ Perform pre-surgical assessments of pediatric patients
- ♦ Know the protocols to be followed when dealing with patients allergic to latex

Module 5. Organization and Interrelation of Nursing Work in the Surgical Department

- ♦ Apply the scientific method as a way of developing diverse surgical procedures and routines, updating all your knowledge and practical skills in response to the new care trends within the surgical field
- ♦ Implement different strategies to meet the requirements of new healthcare demands
- ♦ Analyze and implement new care models based on psychosocial factors involved in health problems, favoring a multidisciplinary approach and promoting patient participation in their own health care process
- ♦ Master how to prepare the surgical field
- ♦ Apply selective collection of waste and residue
- ♦ Master the different patient positions according to the surgical technique to be performed

Module 6. Types of Surgery

- ♦ Delve into the pre-surgical and surgical protocols for each type of surgery
- ♦ Update on the different types of surgery depending on the area to be treated

Module 7. Surgical Instruments

- ♦ Recognize and classify the general and specific surgical material and instruments in each speciality, based on their functionality
- ♦ Analyze the textile, consumable and prosthetic materials used in surgical interventions
- ♦ Master how to clean the instruments before sending them to sterilization
- ♦ Apply new technologies to surgical instrumentation
- ♦ Know how to use the latest trends in surgical instrumentation

Module 8. Surgical Sutures

- ♦ Master the classification and characteristics of suture threads
- ♦ Analyze how surgical needles function
- ♦ Delve into suture techniques and indications
- ♦ Know how to remove surgical sutures: equipment, material, procedure and final considerations
- ♦ Identify how surgical needles are assembled

Module 9. Anesthesia I

- ♦ Gain up-to-date knowledge on drug management procedures and patient control during anesthesia
- ♦ Delve into patient safety during anesthesia
- ♦ Master surgical patient monitoring to detect any type of abnormality
- ♦ Master the access, management and maintenance of the airway: intubation and extubation
- ♦ Identify the most commonly used types of anesthetics
- ♦ Apply defibrillation when needed, mastering the use of the crash cart

Module 10. Anesthesia II

- ♦ Study the basics of general anesthesia more in depth
- ♦ Know the most commonly used drugs in each case
- ♦ Delve into the different regional anesthetic techniques
- ♦ Delve deeper into nursing care for anesthetized patients and crash cart management
- ♦ Be aware of the possible complications derived from anesthesia



Module 11. Research Methodology in Operating Room Nursing

- ♦ Carry out critical reading on outcome research
- ♦ Retrieve scientific information about the surgical area
- ♦ Master writing articles with a scientific structure and publishing results in high-impact journals
- ♦ Delve into the AGREE instrument method
- ♦ Identify the different bibliographic reference managers

03 Skills

After passing the assessments for the Professional Master's Degree in Operating Room Nursing and Intraoperative Care, the professional will have acquired the necessary professional skills for quality, up-to-date care based on the most recent scientific evidence.





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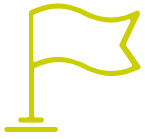
Through this program, you will be able to update your knowledge of surgical nursing care and you will be able to provide quality care to critical patients, based on the latest scientific evidence”



General Skills

- ♦ Develop within the profession in terms of working with other health professionals, acquiring skills to work as a team
- ♦ Recognize the need to maintain your professional skills and keep them up to date, with special emphasis on autonomous and continuous learning of new information
- ♦ Develop the capacity for critical analysis and research in your professional field
- ♦ Possess and understand knowledge that provides a basis or opportunity to be original in the development and/or application of ideas, often in a research context
- ♦ Know how to apply acquired knowledge and problem-solving skills in new or unfamiliar environments within broader (or multidisciplinary) contexts related to the area of study
- ♦ Integrate knowledge and face the challenge of making judgements based on incomplete or limited information. In addition, include reflections on the social and ethical responsibilities linked to implementing this knowledge and judgement
- ♦ Know how to communicate conclusions, knowledge, and supporting arguments to specialized and non-specialized audiences in a clear and unambiguous way
- ♦ Acquire the learning skills that will enable further studying in a largely self-directed or autonomous manner





Specific Skills

- ♦ Maintain a tolerant, non-judgmental, caring and sensitive attitude; considering aspects of age, gender, cultural differences, ethnic group, beliefs and values of each individual, and valuing them holistically
- ♦ Respond with evidence-based interventions to the needs of the person during their lifespan and their experiences of health or illness, especially those who need to undergo surgery and experience pain, difficult life choices, a disability, or are approaching death
- ♦ Identify the psychosocial responses of patients towards different health problems, choosing the appropriate actions to provide care and support
- ♦ Establish an empathetic and respectful relationship with a patient and their family
- ♦ Use appropriate strategies and communication skills
- ♦ Identify the family structure and dynamics surrounding the individual receiving care
- ♦ Gain up to date knowledge of the nursing procedures needed to make different strategies for promoting better health more effective. This could be a in multicultural community context, developing a critical opinion towards the different actions involved in the surgical process
- ♦ Incorporate the principles for establishing research, taking into account the different levels of complexity, the reality of the situation of the patient in their surroundings, and the conceptual framework it is to be conducted within
- ♦ Develop the necessary skills to apply all stages of the scientific health method, according to the different quantitative and qualitative research designs, and incorporating evidence-based practice
- ♦ Carry out a critical analysis of scientific literature
- ♦ Design, construct and manage a database
- ♦ Implement a statistical analysis and interpretation of the data collected in research
- ♦ Search, manage and communicate the information efficiently
- ♦ Identify and know the use of the main technical and technological instruments in the surgical area
- ♦ Explain the diverse roles, responsibilities and functions of a surgical nurse
- ♦ Develop the nursing procedures in the surgical environment with a high skill level, basing each intervention on scientific evidence in the process of continuous improvement



Seize the opportunity and take the step to get up to date on the latest developments in nursing care in internal medicine"

04

Course Management

These materials have been created by a team of professionals who are experts in nursing patient care, working in the main hospital centers and in most important internal medicine services in the country, bringing to the program the experience they have gained throughout their careers.



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*Learn about the latest advances in
nursing care of a surgical patient
from leading professionals"*

Guest Director



Ms. Diaz Torrijos, María José

- ♦ Nursing supervisor of the General Surgery Department at 12 Octubre Hospital 2019-present
- ♦ Pediatric Services in the De Fuenlabrada University Hospital (Madrid) 2004-2011
- ♦ Operating Room Services, 3rd General Residency at the De Fuenlabrada University Hospital (Madrid) 2016-2019
- ♦ Degree in Nursing from the "Puerto de Hierro" University School of Nursing, Autonomous University of Madrid
- ♦ Specialist Nursing Qualification in Pediatric Nursing from the Ministry of Culture, Education and Sports
- ♦ Master's Degree in Nursing Management from European University of Madrid
- ♦ Expert Postgraduate Certificate in Management and Quality of Care from the Nursing Leadership by FUDE

Direction



Mr. Pazos Moreno, José Manuel

- ♦ Surgical Nurse, Outpatient Surgery Unit, Elche University General Hospital
- ♦ Former supervisor of the Surgical Area and ICU. (Outpatient Surgery Unit) of the General Hospital of Elda and the General University Hospital of Elche (17 years)
- ♦ Associate Professor of Nursing at the Faculty of Sciences of the University of Alicante and Collaborating Professor of Nursing at the Faculty of Health Sciences of the Cardenal Herrera CEU University of Elche
- ♦ Director of the online degree in Nursing in the Surgical Area and Aftercare (Aula Salud)
- ♦ Organizer, speaker, communicator and panel member at various National and International Congresses on topics related to the Surgical Field
- ♦ Director of more than 200 (two hundred) Postgraduate Courses on Surgical Instrumentation and Sutures, organized by the Nursing Department of the University of Alicante and the Official College of Nursing of Alicante, among others

Professors

Dr. Andreu Gálvez, Juan

- ♦ Medical Director of the Surgical Area of the Vinalopó Hospital in Elche, from 2010-present
- ♦ PhD in Medicine and Surgery from the University of Valencia
- ♦ Specialist in General and Digestive System Surgery University of Murcia, 1982
- ♦ Start-up (among others) of the H.G.U. Major Outpatient and Short Stay Surgery Unit. Elche (General Surgery)
- ♦ Professor, Organizer, speaker, communicator and panel member at various National and International Congresses on topics related to the Surgical Field

Ms. Esteban Saori, Patricia

- ♦ Preparation course for the degree in Nursing, Complutense University of Madrid 2015 - 2016.
- ♦ Diploma in Nursing. Autonomous University of Madrid (Jiménez Díaz Foundation) 1998-2001
- ♦ Surgical Nurse in the Lung Transplant Team at the 12 de Octubre University Hospital 2005 - present
- ♦ Surgical Nurse in the Lung Transplant Team at the 12 de Octubre University Hospital 2005

Mr. Garcia Del Campo, Gabriel

- ♦ Operating Room Service in the Abdominal Organ Transplant Unit at the 12 de Octubre University Hospital Madrid. 2015- present.
- ♦ University Diploma in Nursing. San Pablo University CEU, Madrid 1997-2000.
- ♦ Official Specialist Nurse Qualification in Pediatric Nursing. Ministry of Education of Spain. 2016
- ♦ Virgen del Mar Hospital, Madrid. Operating Room Services and Intensive Care 2001-2003.

Mr. García Ortega, Eduardo

- ♦ Nurse in Surgical Department at 12 Octubre University Hospital, Madrid. (2006- present.)
- ♦ Surgical Nurse at the Moncloa de Madrid Hospital (October 2009- April 2021)
- ♦ Surgical Nurse at Nuevo Parque de Madrid Clinic (December 2005- March 2009)
- ♦ Diploma in Nursing. Complutense University of Madrid. 2005
- ♦ Postgraduate Degree in Surgery and Anesthesia. Rey Juan Carlos University. Madrid 2006

Ms. Llamas Carrasco, María Jesús

- ♦ Degree in Law from the University of Alicante (1992)
- ♦ Currently head of the Legal Services of the Elche University General Hospital
- ♦ Participant in congresses, courses and journals related to legal aspects of healthcare
- ♦ Coordinator of courses related to legal aspects of healthcare in the Valencian School of Healthcare Studies (among others)
- ♦ Teacher in courses related to legal aspects of healthcare in the Valencian School of Healthcare Studies (among others)

Mr. Pazos González, Francisco Javier

- ♦ University Diploma in Nursing
- ♦ Master's Degree in Nursing Care: specializing in accidents and emergencies
- ♦ Surgical Nurse at Elche General University Hospital
- ♦ Work experience in primary care and the emergency department at Elche General University Hospital
- ♦ Currently studying a degree in Human Nutrition and Dietetics (3rd year)
- ♦ Courses studies (among others) "Surgical Instruments" and "Surgical Sutures" from the Nursing College of Alicante
- ♦ Teaching collaborator at the Cardenal Herrera University CEU (surgical practice department)
- ♦ Collaborator in the design of distance learning courses for the "Aula Salud" company

Ms. Ranz González, Raquel

- ♦ Surgical Nurse in various specialities in the Gregorio Marañón Hospital and 12 Octubre Hospital
- ♦ Diploma and degree in Nursing from the Complutense University of Madrid
- ♦ Participation in the subcommissions of "Surgical Protocols" and "Accounting protocol revision" in the Doce de Octubre University Hospital
- ♦ Co-author of the scientific report: "A Literary Challenge" in the 6th National Congress of Surgical Nursing in Barcelona
- ♦ Co-author of the scientific paper: Poster "Why does it hurt? Measures to preserve patient safety in the operating room" in the 3rd. National Congress of Surgical Nursing in Cordoba



Dr. Santos Fuster, Pilar

- ♦ Degree in Medicine and Surgery from the University Alicante 1990
- ♦ Specialist in Anesthesiology and Resuscitation after a residency in the "Virgen de la Arrixaca" Hospital in Murcia 1995
- ♦ Professional practice as Anesthetist in the Anesthesiology and Resuscitation Department at the Elche University General Hospital
- ♦ Master's Degree in Bioethics from the Valencian School of Health Studies, 2003-2004
- ♦ Master's Degree in Administration and Management of Health Services, 2012-2013
- ♦ Professor of various courses related to the speciality of Anesthesiology and Resuscitation
- ♦ Participation in scientific congresses and conferences as speaker, communicator and panel member
- ♦ Research and publications in scientific papers
- ♦ Member of the European and World Society for Airway Management 2002 and 2004

Ms. Sanz Hernández, Natalia

- ♦ Preparation Course for the Degree in Nursing. University of León
- ♦ Diploma in Nursing. University of Valladolid Soria Campus
- ♦ Surgical Nurse in Maxilofacial, Trauma and Orthopedics at the 12 de Octubre University Hospital 2011 - present
- ♦ Surgical Nurse in Thorax and Cardiovascular Surgery, Otorhinolaryngology, Neurosurgery at 12 de Octubre University Hospital 2007 - 2011

05

Structure and Content

The structure of the syllabus has been designed by a team of professionals with knowledge of the implications of specialist nursing training in dealing with surgical patients, who are aware of the relevance of up to date specialization, and are committed to quality teaching using new educational technologies.





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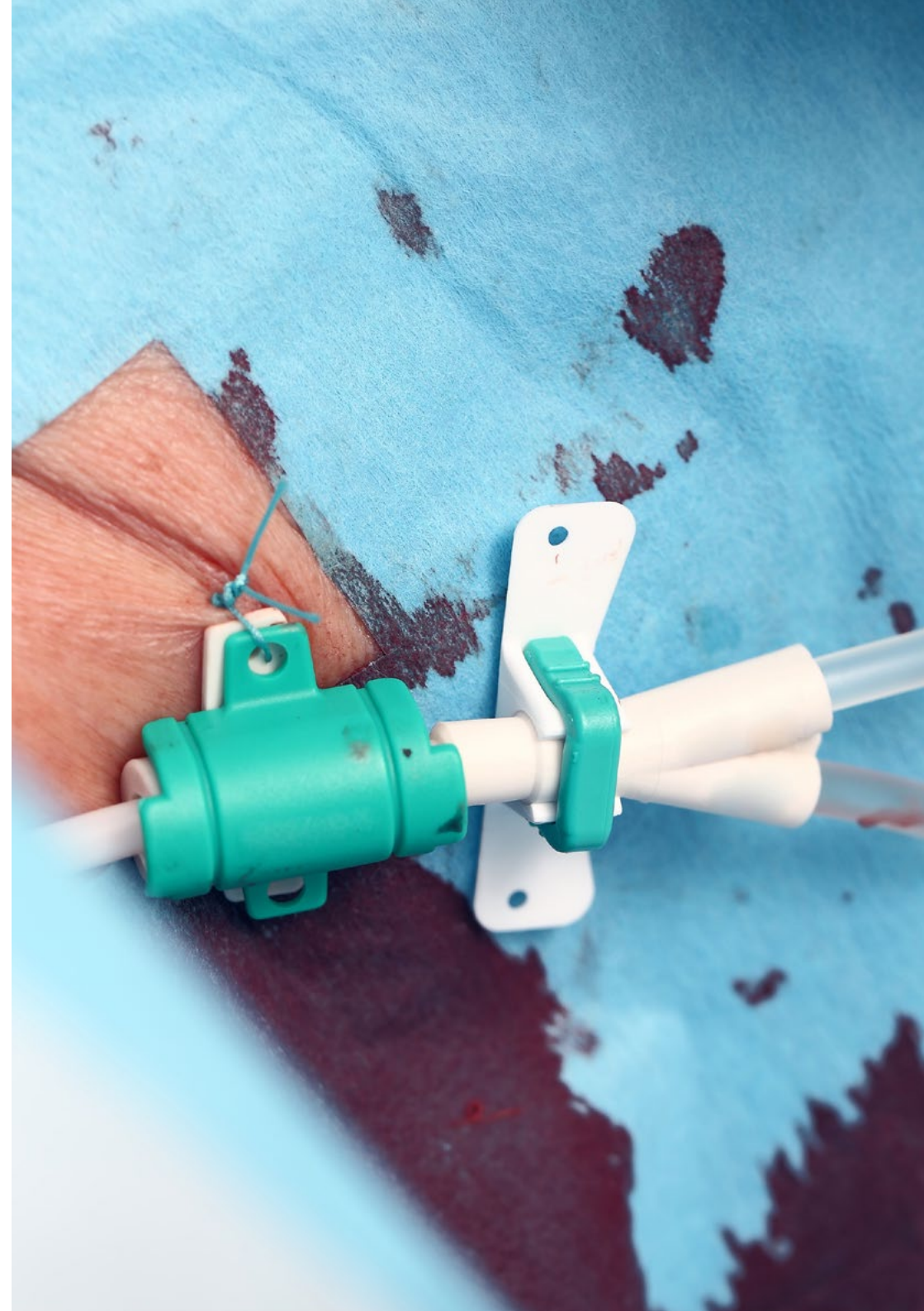
This Professional Master's Degree in Operating Room Nursing and Intraoperative Care, contains the most complete and up-to-date scientific program on the market”

Module 1. Surgical Nurses

- 1.3. Professional Secrecy
- 1.4. Brief Historical Introduction to Surgical Nursing and "Modern" Surgery
- 1.5. Professional Nursing Personal Qualities and/or Behaviours for Surgical Nurses
- 1.7. Stress Control in the Operating Room: Burnout Syndrome
- 1.8. Nursing Practice and Humanizing Care in the Operating Room

Module 2. Architecture, Facilities and Equipment in the Surgical Department

- 2.1. Architecture and Facilities: Structure and Location, Space Design and Distribution
- 2.2. Surgical Features and Equipment
- 2.3. New Topic: Operating Room Design
- 2.4. Biosafety in Operating Rooms
- 2.5. Analyzing the Situation in the Surgical Block
- 2.6. Patient Safety in the Surgical Block
- 2.7. Specific Equipment for Certain Procedures: Electrosurgery. Electric Scalpel
- 2.8. Specific Equipment for Certain Procedures: Pneumatic Tourniquet (Ischemia) and Endoscopic Surgery
- 2.9. Specific Equipment for Certain Procedures: Laser Technology



Module 3. Concept of Asepsis and Infection Control: Sterilization and Disinfection

- 3.1. Brief Historical Introduction and Some Definitions
- 3.2. Infection and How to Control it
- 3.3. The Need for Sterile Techniques
- 3.4. Central Services of Sterilization
- 3.5. Methods of Sterilization
- 3.6. Sterilization Controls
- 3.7. Preparation of Materials to Sterilize
- 3.8. Maintenance of Sterile Material Stocks
- 3.9. Biological Risks not Associated with the Sterilization Process
- 3.10. Reuse of Single-Use Medical Devices
- 3.11. Occupational Hazards in Sterilization Units
- 3.12. Cleaning the Operating Room

Module 4. Preoperative Preparation of the Surgical Patient

- 4.1. Communicating with Patients and Psychological Considerations before Surgery
- 4.2. Patient Needs, Psychological Responses, Accepting Surgery and Informed Consent
- 4.3. Preparation and Physical Examination of Surgical Patient Candidates
Nutritional Needs
- 4.4. Special Considerations: Diabetic, Obese, Pediatric, Geriatric and Terminal Patients
- 4.5. Preoperative Assessment in Pediatric Surgery
- 4.6. Interpersonal Relationships: Nurse-Patient and Nurse-Surgical Team
- 4.7. Preoperative Shaving
- 4.8. Surgical Preparation for Cognitively Impaired Patients
- 4.9. Preoperative Skin Preparation
- 4.10. Patients Allergic to Latex

Module 5. Organization and Interrelation of Nursing Work in the Surgical Department

- 5.1. Necessities in the Operating Room
- 5.2. Economic Use of Materials and Equipment
- 5.3. Role of the Surgical Nurse: Different Roles during the Different Phases of Surgical Intervention (Preoperative, Intraoperative and Postoperative Procedures)
- 5.4. Other Members of the Operating Room Team: The Importance of Teamwork
- 5.5. Surgical Scrubbing and Application of Sterile Gowns and Gloves
- 5.6. Preparing Instrument Tables
- 5.7. Delivering Patients to the Surgical Table: Transfer to the Operating Table
- 5.8. The Surgical Table: General Patient Positions according to the Surgical Technique to be Performed
- 5.9. Possible Patient Injuries due to Incorrect Positioning on the Surgical Table.
- 5.10. Intraoperative Techniques: Economical "Time and Motion"
- 5.11. Radiation Risks and Precautions
- 5.12. Concluding the Intervention. Removal from the Surgical Site and Cleaning the Operating Room

Module 6. Types of Surgery

- 6.1. Gynecological Surgery
- 6.2. Urologic Surgery
- 6.3. Cardiac Surgery
- 6.4. Vascular Surgery
- 6.5. Ophthalmic Surgery
- 6.6. Otolaryngological Surgery
- 6.7. Orthopedic Surgery
- 6.8. General Surgery
- 6.9. Neurological Surgery
- 6.10. Thoracic surgery
- 6.11. Dermatological Surgery

Module 7. Surgical Instruments

- 7.1. General Aspects. Surgical Timing Surgical Instruments: Characteristics, Parts, Classification and Indications
- 7.2. Arrangement of Surgical Instruments and Other Materials on the Instrumentation Table(s). Instrument Care and Management
- 7.3. Presenting Basic and General Surgical Instruments. Instrumentation Techniques
- 7.4. Textile, Disposable and Prosthetic Materials. Surgical Specialties. Instrument Cleaning and Preparation prior to Sterilization Referral
- 7.5. "Silent" Instrumentation. Role of Nurses in New Technologies
- 7.6. Surgical Field Set-Up and Sterile Field Preservation in Laparoscopy
- 7.8. Basic Instruments in Laparoscopy
- 7.9. Nursing Staff Intervention in Laparoscopic Surgery
- 7.10. Safety Activities in Surgical Instrumentation
- 7.11. Robots. New Colleagues in the Operating Room. The Da Vinci System

Module 8. Surgical Sutures

- 8.1. History and Definition of Suture
- 8.2. Classification and Characteristics of Suture Thread
- 8.3. Surgical Needles
- 8.4. Anatomy of a Surgical Needle - Practical Aspects of Use
- 8.5. Suture Techniques, Indications and Removal
- 8.6. Hemorrhages and Healing Phases
- 8.7. Types of Surgical Suture
- 8.8. Suture Anesthesia
- 8.9. Surgical Suture Care at Home

Module 9. Anesthesia I

- 9.1. What Is Anesthesia? Evolution of Current Concepts of Anesthesia
- 9.2. Patient Safety in Anesthesia
- 9.3. Pre-Anesthetic Consultation
- 9.4. Apparatus to Support Anesthetic Control
- 9.5. Surgical Patient Monitoring I. Cardiovascular
- 9.6. Surgical Patient Monitoring II. Respiratory, Renal Function and Acid Base Balance
- 9.7. Surgical Patient Monitoring III. Temperature, Neuromuscular and CNS

- 9.8. Nursing Airway Management
- 9.9. Devices to Ensure Airway Permeability. Airway Cart
- 9.10. Fluid Therapy, Blood and Blood Derivatives
- 9.11. Pediatric Anesthesia

Module 10. Anesthesia II

- 10.1. General Anesthesia
- 10.2. Most Common Anesthetic Agents (Drugs)
- 10.3. Inhalation Anesthetic Agents
- 10.4. Regional Anesthetic and Analgesic Techniques
- 10.5. Peripheral Blockages. Sedation
- 10.6. Nursing Care for Patients under Anesthesia. Crash Cart
- 10.7. Postoperative Complications
- 10.8. Interventions that Can Prevent Preoperative Complications
- 10.9. Patient Admission to the Post-Anesthesia Recovery Unit
- 10.10. Possible Complications Discharge Criteria

Module 11. Research Methodology in Operating Room Nursing

- 11.1. Recovery of Quality Information Specializing in Health Sciences
 - 11.1.1. Development of a Bibliographic Search
 - 11.1.2. Knowledge of Different Information Sources: General Search Engines (Google Scholar, Scopus), Databases (PubMed, Embase, Cinahl) and Clearinghouse Clinical Practice Guidelines
 - 11.1.3. Designing Complex Search Strategies
 - 11.1.4. Refining Search Results
 - 11.1.5. Creating Bibliographic Alerts
- 11.2. Bibliographic Reference Management
 - 11.2.1. Introduction to Bibliographic Reference Managers
 - 11.2.2. Importing References into the Zotero Reference Manager
 - 11.2.3. Extracting Metadata from .pdf Files
 - 11.2.4. Use of Tags or Metatags to Classify the Bibliography
 - 11.2.5. Including References in the Text. Vancouver Style
 - 11.2.6. Social Web and Group Work

- 11.3. Critical Reading on Outcomes Research
 - 11.3.1. Introduction Critical Reading
 - 11.3.2. Some Basic Concepts in Epidemiology
 - 11.3.3. Qualitative Research Designs
 - 11.3.4. Quantitative Research Designs
 - 11.3.5. Instruments for Critical Reading
- 11.4. How to Prepare a Research Protocol
 - 11.4.1. Headings that Make Up the Protocol of a Research Project
 - 11.4.2. Writing Articles with a Scientific Structure
 - 11.4.3. Writing a Case Report, Review, Qualitative Research Article, and a Thesis or Dissertation
 - 11.4.4. Style in Scientific Communication
- 11.5. Master's Degree Thesis: Academic Work of Bibliographic Review and Research
 - 11.5.1. The Importance of a Master's Degree Thesis
 - 11.5.2. Proposal and Feasibility of a Master's Degree Thesis
 - 11.5.3. Recommendations for the Preparation of the Master's Degree Thesis
 - 11.5.4. Development and Evaluation of the Master's Thesis
 - 11.5.6. Recommendations for the Defence of the Master's Degree Thesis



A unique, key, and decisive educational experience to boost your professional development"



06 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.



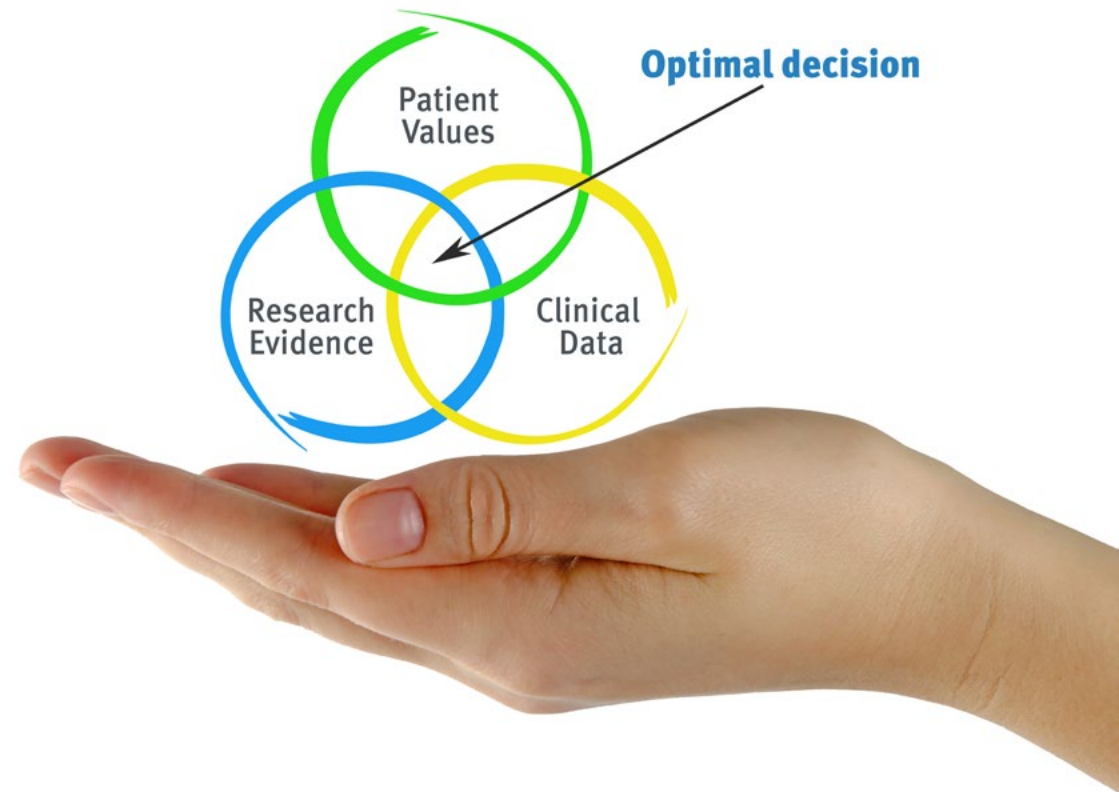
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Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"

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. Gervas, 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.

“

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 relearn). 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

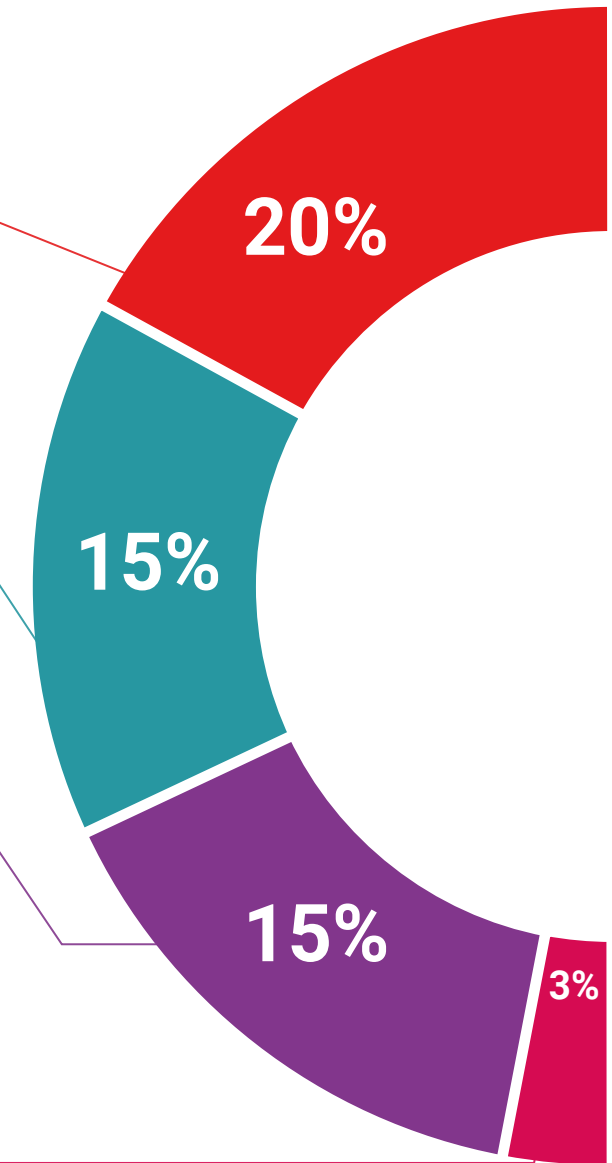
The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

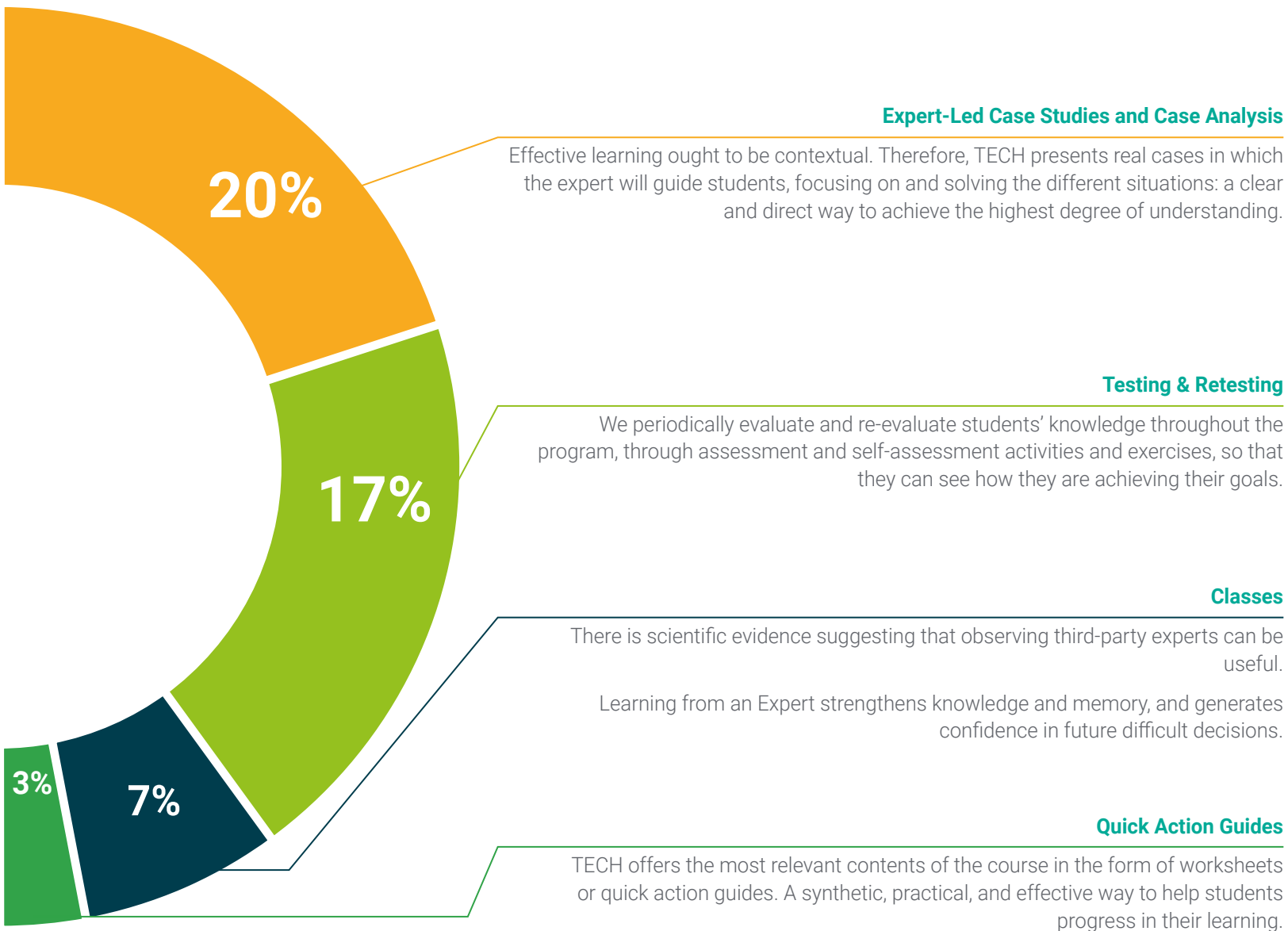
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



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.





07 Certificate

This Professional Master's Degree in Operating Room Nursing and Intraoperative Care guarantees, in addition to the most rigorous and updated training, access to a qProfessional Master's Degree issued by TECH Technological University.





*Successfully complete this program
and receive your university degree
without travel or laborious paperwork”*

This **Professional Master's Degree in Operating Room Nursing and Intraoperative Care** contains the most complete and up-to-date scientific program on the market.

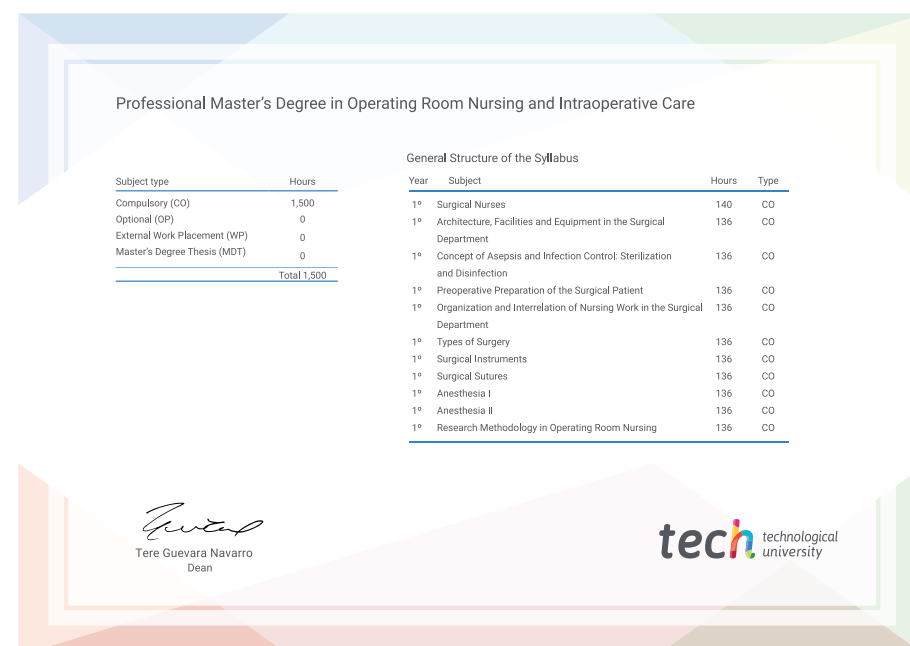
After the student has passed the assessments, they will receive their corresponding **Professional Master's Degree** issued by **TECH Technological University** via tracked delivery*.

The certificate issued by **TECH Technological University** will reflect the qualification obtained in the Professional Master's Degree, and it meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional from career evaluation committees.

Title: **Professional Master's Degree in Operating Room Nursing and Intraoperative Care**

Official Number of Hours: **1,500**

Endorsed by: The Spanish Association of Surgical Nursing





tech technological university

Professional Master's Degree
Operating Room Nursing
and Intraoperative Care

- » Modality: online
- » Duration: 12 months
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Professional Master's Degree

Operating Room Nursing and Intraoperative Care

Endorsed by:



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ESPAÑOLA
DE ENFERMERÍA
QUIRÚRGICA