Professional Master's Degree
Research in Nursing

tech *technological university*

tech technological university

Professional Master's Degree
Research in Nursing

- » 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-research-nursing**

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01

Introduction

At TECH, we are proud to introduce a premium quality educational product. This program, created for nursing professionals, offers you advanced training focused on promoting research within the health sciences. Research in this field aims to advance knowledge and improve the quality of care provided to patients, responding to the academic and professional development in the field of nursing.

A high quality Professional Master's Degree for the nursing profession that will allow you to broaden your professional horizons"

Humans have always aimed to explain the phenomena happening around us. In this Professional Master's Degree, we will learn to pose questions and doubts correctly in research, apply the scientific method, which is essential to determine to relate events and confirm causality, or rule out the likelihood of happenstance.

It will be essential to learn the different research methods and, at a practical level, know how to propose and use the most appropriate one in each situation. We will analyze the advances in care through nursing science, what we know as "evidence-based nursing" It is important to know what clinical trials are, and what differentiates them from other research studies.

It is also essential to know how to shape the proposed research project, learning the process of writing a research protocol is the letter of introduction to other researchers in the scientific community. When a scientific study is proposed, we start from previous research, which provides our research with support because it is based on statements that have been previously confirmed by other authors and researchers and validated by the scientific community. It is, therefore, vital to know the citation process when making statements in a text.

A comprehensive review of all the aspects required to carry out a thorough and quality nursing research project.

This comprehensive program prepares nursing postgraduates in the area of research, offering complete theoretical and practical training in all areas, including related overlapping ones.

This preparatory approach will also present you with simulated situations and practical experiences, which will allow professionals to acquire a high level of professional competence. The training is dynamic, benefiting from a teaching team with experience in research and innovation, who in their daily work develop real and analytical scientific research within their professional activity.

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

- The latest technology in online teaching software
- A highly visual teaching system, supported by graphic and schematic contents that are easy to assimilate and understand
- Practical cases presented by practising experts
- State-of-the-art interactive video systems
- Teaching supported by telepractice
- Continuous updating and recycling systems
- Autonomous learning: full compatibility with other occupations
- Practical exercises for self-evaluation and learning verification
- Support groups and educational synergies: questions to the expert, debate and knowledge forums
- Communication with the teacher and individual reflection work
- Content that is accessible from any fixed or portable device with an Internet connection
- Supplementary documentation databases are permanently available, even after the program

A complete process of professional growth that will allow you to include among your capabilities the skills of a trained researcher"

A unique opportunity to gain access to the most interesting databases and the most powerful educational community in the online teaching market"

Increase your decision-making confidence by updating your knowledge through this master's degree.

Add to your CV the ability to participate in the area of research and position yourself as a competitive and interesting professional for any company.

The teaching staff includes professionals from the field of nursing, who bring their experience to this training program, as well as renowned specialists from leading communities and prestigious universities.

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 experience designed to train for real-life situations.

The program design focuses on problem-based learning, by means of which the nurses must try to solve the different professional practice situations that arise throughout the course. To do so, specialists will be assisted by an innovative, interactive video system created by renowned and extensively experienced experts in Nursing Research.

02
Objectives

This comprehensive training allows professionals to develop skills and apply theoretical knowledge in real research projects in nursing practice, from the research question/hypothesis to the publication of their results.

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"
This Professional Master's Degree offers you the essential support to reach your educational objectives, with a teaching system created to facilitate and increase learning"

General Objectives

- Obtain the tools required to execute the research idea
- Learn how to manage the scientific method that will enable you to become researchers and knowledge producers
- Use different research models depending on the object of study
- Perform bibliographic searches, accessing the latest research results with critical and analytical skills

Realistic objectives, but with a high preparatory impact, in a program of the highest level"

Specific Objectives

Module 1. Fundamentals of Health Science Research

- Delve deeper into in the research process as a whole
- Manage the evolution of research in nursing
- Make use of the different study designs in nursing research
- Develop critical reasoning as a researcher
- Acquire in-depth knowledge of the essential elements of research design
- Plan a nursing research project independently
- Manage skills for writing a scientific article

Module 2. Qualitative Research

- Develop a deep understanding of the methodology and practice of qualitative research
- Manage conceptual tools that allow for critical analysis of works in health research
- Identify the most important concepts of the different qualitative research paradigms
- Delve into the different qualitative research methodologies, their fields of application, characteristics and limitations
- Understand the importance how communities and individuals interpret reality in order to identify problems and create theories that can then be investigated using quantitative methods
- Apply the necessary tools to be able to adapt health initiatives to the community's vision, when the community has different cultural characteristics from the rest of the population

Module 3. Quantitative Research

- Define quantitative research, theoretical bases, general characteristics and basic concepts of quantitative research
- Define terms related to the quantitative research process
- Compare and contrast use and control in quantitative research
- Describe the phases in the process of quantitative research
- Examine the different types of quantitative research studies: descriptive, correlational, quasi-experimental and experimental
- Value its importance in generating knowledge for nursing practice

Module 4. Data Analysis and Management

- Acquire an expert command of statistical software: EXCEL, SPSS and software popular among Windows users, used to perform data capture and analysis to create tables and graphs with complex data
- Learn sampling techniques, clearly distinguishing between the population and the sample
- Elaborate and design tables, a set of strategies and procedures aimed at selecting a sample of a target study population that meets a series of statistically desirable characteristics
- Identify the difference between variables. Discrete variable and continuous variables
- Create surveys to obtain research data

Module 5. Bioethics in Nursing Research

- Have in-depth knowledge of the bioethical principles on which biomedicine is based
- Gain in-depth knowledge of nursing ethics and bioethics in the profession
- Specialize in what an Ethics Committee consists of in clinical and drug research, its composition and functions
- Raise awareness of good clinical practices and their usefulness in research activities
- Manage skills to avoid plagiarism and unethical use of research data
- Manage the roles of the researcher, study sponsor and patient
- Avoiding conflicts of interest when conducting research

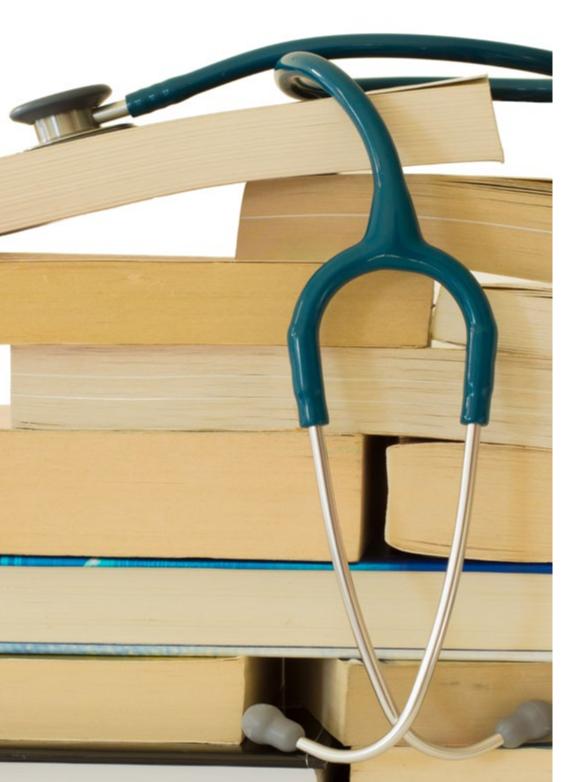## Module 6. Information and Communication Technologies

- Gain experience in the different existing digital resources for obtaining information and bibliography management
- In-depth analysis of scientific information searches through digital media
- Perform bibliographic searches based on the methodology learned
- Effective dissemination of synthesized evidence
- Manage digital tools for market research as a basis for analysis in social networks
- Develop Big Data strategies by designing a plan for contact and communication with patients and healthcare professionals
- Make decisions in the context of new marketing strategies based on digital media
- Manage new telematic models and analyze possible solutions in today's nursing world

Module 7. Statistics

- Delve deeper into the fundamentals of statistical thinking and basic statistical techniques
- Understand the role of statistical tools in the different phases of clinical research and in interpreting scientific publications
- Provide the necessary knowledge to select the most appropriate statistical techniques
- Interpret P values in statistics and their importance in clinical practice
- In-depth understanding of random and systematic errors and statistical interferences
- Examine the concept of triangulation and its usefulness

Module 8. Research Quality

- Analyze different indicators of rigor and/or quality of a research study according to its design
- Have a thorough knowledge of the instruments and tools that help detect and recognize quality scientific documents
- Delve deeper into the recommendations for submitting a project to a competitive bid or grant
- Know how to establish good communication, both oral and written
- Implement the process to develop a clinical practice guideline, as well as recommendations or protocols

Module 9. Research Lines in Nursing

- Delve deeper into health care needs and demands
- Understand the importance of developing health promotion activities
- Describe the different nursing models and theories and their phenomena
- Delve deeper into the research scope focused on geriatric patients
- Value the importance of mental health at a social and individual level
- Gain in-depth knowledge of the existence of advanced nursing practice
- Consider a future where health is governed by technologies and predictive medicine

03
Skills

At the end of this program, you will have acquired the knowledge and skills required to resolve complex situations within the professional activities that require nursing research. You will also know how to manage the tools that favor the analysis and critical reading of scientific information related to health.

A program created to turn learning objectives into real competencies"

General Skills

- Define a nursing research study
- Organize the research structure
- Define the processes to conduct the research
- Develop all the research phases
- Publish your results

Learn from leading professionals the latest advances in research methodologies in health sciences"

Specific Skills

- Use the elements of nursing research design
- Adapt the methodology to each specific area of research
- Examine data and interpret quantitative research
- Use computer software appropriate for nursing research
- Describe the bioethical principles underpinning biomedicine
- Master nursing deontology and bioethics
- Apply and explain good clinical practices
- Avoiding plagiarism and Conflict of interest
- Use different digital resources to organize information searches
- Exploit marketing strategies
- Use statistical tools
- Interpret P-value in clinical practice
- Describe triangulation
- Have criteria to recognize quality projects
- Submit a project to a call for proposals or a grant
- Recognize the importance of research in geriatrics

04
Course Management

A specialized teaching staff made up of nursing professionals who bring their work experience to this training. Additionally, other recognized specialists have participated in the creation of the contents, complementing the program in an interdisciplinary manner.

Learning from the best is the most effective way to move toward excellence. That is why our professor have been chosen from among the best professionals in the field"

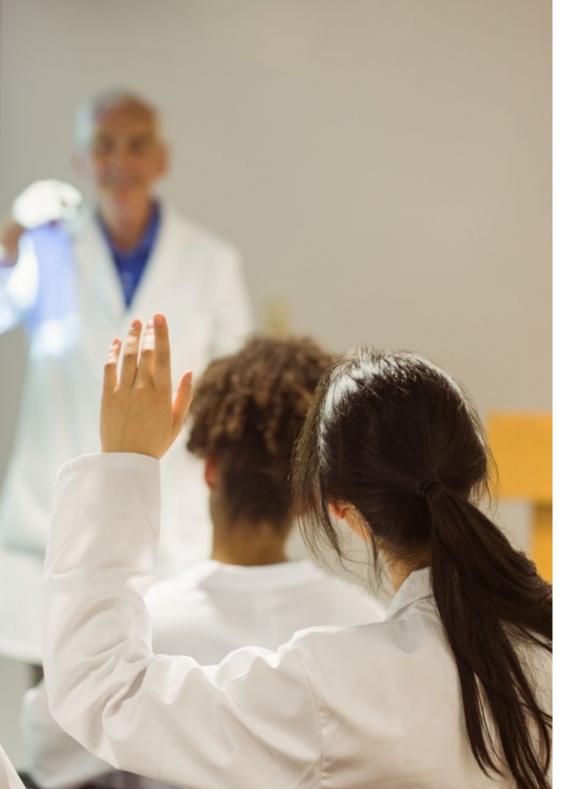## Management

Dr. Rodríguez Nogueiras, Amelia

- Graduate in Nursing
- Postgraduate Diploma in Research
- Master's Degree in Research
- PhD in Nursing

Mr. Redondo Montserrat, Francisco

- Diploma in Nursing
- Postgraduate Diploma in Innovation
- Nutritionist
- Innovation Nurse

Professors

Mr. López Paterna, Pedro
- Nurse at Lavapiés Primary Care Center - Madrid Health Service (SERMAS)

Mr. García, César Alfonso
- School Nurse COVID-19 Coordinator
- Degree in Nursing from the University of Salamanca
- Master's Degree in Integration in Care and Clinical Problem Solving in Nursing, University of Alcalá

Dr. Gutiérrez Soriano, Agustín
- Master's Degree in Nursing Research
- PhD student in Nursing

Ms. Canteli Diez, Alba
- Specialist practitioner in family and community nursing

Ms. Sánchez Ruano, Raquel
- Specialist practitioner in family and community nursing

Ms. Rodríguez Casal, Lucia
- Nurse in intensive care

Ms. Álvarez Otero, Serafina
- Pharmacy nurse supervisor

Dr. Vázquez Campo, Miriam
- Nurse in charge of research and quality
- PhD in Psychology

Structure and Content

The contents of this Professional Master's Degree have been developed by the different experts on the program with a clear purpose: to ensure that our students acquire each and every one of the necessary skills to become true experts in this field.

A complete and well-structured program that will take you to the highest standards of quality and success.

A spectacular syllabus that will take you through the most exciting training process, boosting your professional and personal growth in the most stimulating of ways"

Module 1. Fundamentals of Health Science Research

1.1. Introduction to Research: Definition, Research in Different Areas
1.2. Historical Overview: Research History in Health Sciences: The Different Disciplines in Health Sciences
1.3. History of Nursing Research: Historical Review, Nursing Research Continuum, Nursing Research Figures
1.4. Evidence-Based Nursing: Research Results, Application to Healthcare Practice
1.5. Research Methodology: Research Question, Applying Research Models
1.6. Research Project Design: Matching Studies to the Question Posed, Results and Conclusions
1.7. Clinical Trials: Theoretical Framework, Trial Phases, Clinical Trial Figures
1.8. Epidemiology: Theoretical Framework, Epidemiology and Research Evolution
1.9. Process of Writing a Research Protocol: Outline, Structure, Phases
1.10. Citation and Bibliography: Definition, Importance of Bibliographic Citation, Respect for the Author, Bibliographic Preparation Models

Module 2. Qualitative Research

2.1. Introduction to Qualitative Research: Theoretical Framework, Definition in Different Areas
2.2. Methods and Design in Qualitative Research: Research Question, Applying Research Models
2.3. Qualitative Research Analysis: Answering the Question, Studying the Results, Relationship between Results and Conclusions, Critical Reading
2.4. Qualitative Research Tools: Interviews, Focus Groups, Mapping, Other Techniques
2.5. Data Representations in Qualitative Research
2.6. Relationship between Qualitative Variables: Analysis of Independent Data Tables, Chi-Squares, Association Coefficients, MacNemar Test, Data Interpretation
2.7. Observational Methods: Full Study Tools
2.8. Conversational Methods: Full Study Tools
2.9. Field Journal or Logbook
2.10. Metasynthesis: Elaboration Critical Reading

Module 3. Quantitative Research

3.1. Introduction to Quantitative Research: Theoretical Framework, Definition in Different Areas
3.2. Quantitative Research Tools: Research Question, Applying Research Models
3.3. Quantitative Research Analysis: Answering the Question, Studying the Results, Relationship between Results and Conclusions, Critical Reading
3.4. Relationship between Quantitative Variables: T-test, Nonparametric Tests, Mann-Whitney Test, Data Interpretation
3.5. Analysis with More Than Two Samples: Anova, Kruskal-Wallis Test, Variance Analysis, Friedman Test
3.6. Regression: Scatterplot and Correlation Diagrams
3.7. Incidence and Prevalence. Proportion, Ratio and Rate
3.8. Diagnostic Test Analysis: Sensitivity and Specificity
3.9. Roc Curves
3.10. Meta-analysis and Literature Revision: Elaboration Critical Reading

Module 4. Data Analysis and Management

4.1. Use of Statistical Programs: SPSS Introduction, Functionality and Statistical Package
4.2. Use of Statistical Programs: Excel: Introduction, Functionality and Statistical Package
4.3. Sampling Techniques, Definition and Techniques
4.4. Sample Size: Introduction, Calculation Formulas and Computer Programs
4.5. Descriptive Data Analysis: Table Building, Table Design, and Data Processing
4.6. Types of Variables: Classification
4.7. Data Collection Surveys in Research: Conducting Surveys, Data Exploitation and Survey Validation
4.8. Data Collection Scales in Research: Validated Scales, Scale Scores, Relative Data Validity
4.9. Data Collection Notebook: Preparation, Correlation between Variables, etc.
4.10. Scientific Evidence: Data Correlation

Module 5. Bioethics in Nursing Research

5.1. Basic Principles in Bioethics: Theoretical and Historical Framework

5.2. Bioethics in Nursing: Theoretical Framework Applying Bioethics in Nursing

5.3. Clinical and Drug Research Committee: Composition, Structure, Rules and Regulations, Role in Research

5.4. Scientific Integrity: Principles and Values, Impact Factor, Journal Indexing, Peer Review, etc.

5.5. Good Clinical Practices, Theoretical Framework, Guidelines and Functionality

5.6. Conflicts of Interest in Research: Professional and Economic Conflicts

5.7. Fraud in Research, Theoretical Framework, Active Researchers

5.8. Audits and Inspections

5.9. Researcher, Promoter and Patient: Roles and Responsibilities

5.10. Plagiarism and the Ethical Use of Information, Theoretical Framework and Plagiarism Detection

Module 6. Information and Communication Technologies

6.1. Databases and Online Resources, Theoretical Framework, Indexed Information

6.2. Management of Bibliographic Managers, Repositories, Online Managers, Link between Bibliographic Search Engines and Managers

6.3. How to Organize a Scientific Query Books, Journals, Articles

6.4. Scientific Publications and Dissemination

6.5. Virtual Conferences and Congresses Speakers, Delegates

6.6. Webinars

6.7. Social Network and Online Resource Analysis

6.8. Nursing and Social Networks

6.9. Big Data: Theoretical Framework Applying the New Knowledge Generated

6.10. Implementing of Telematics in Nursing Science: Health Care, WHO and Telenursing: New Care Models

Module 7. Statistics

7.1. Basic Biostatistics: Introduction Use in Research

7.2. Descriptive Statistics Theoretical Framework. Descriptive Techniques

7.3. Analytical or Inferential Statistics

7.4. Statistical Significance: P Value

7.5. Random Error or Systematic Error: Biases Errors in the Selection of Correlation Variables

7.6. Internal and External Results Validity

7.7. Hypothesis Contrast

7.8. Statistical Inference

7.9. Quantitative and Qualitative Research Triangulation

7.10. Graphical Representation of Results

Module 8. Research Quality

8.1. Introduction to Quality in Research: Theoretical Framework

8.2. Nursing Research Rigor

8.3. Quality Indicators

8.4. Critical Reading

8.5. Research Groups and Networks

8.6. Competitiveness in Calls for and Research Grants

8.7. Science Dissemination

8.8. Establishing Oral Communication

8.9. Establishing Infographic Communication

8.10. Elaborating Clinical Practice Guidelines and Protocols

Module 9. Research Lines in Nursing

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

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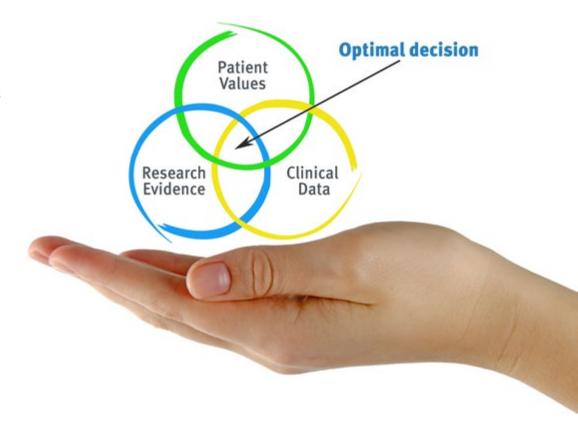
Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"

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.

> *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.

01 learning from evidence

02 relearning from evidence

03 testing

04 learning from an expert

05 neurocognitive context dependent learning

06 Von-Restorff effect

07 case based learning through storytelling

08 competencies testing (retesting)

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.

20%

15%

15%

3%

20%

17%

7%

3%

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.

Certificate

The Professional Master's Degree in Research in Nursing guarantees you, in addition to the most rigorous and updated training, access to a Professional 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 Research in Nursing** contains the most complete and updated scientific program on the market.

After the student has passed the evaluations, 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 meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees.

Title: **Professional Master's Degree in Research in Nursing**

Official Nº of hours: **1,500 h.**

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tech technological university

Awards the following
CERTIFICATE
to

Mr./Ms. _____, with identification number _____.
For having successfully passed and accredited the following program

PROFESSIONAL MASTER'S DEGREE
in

Research in Nursing

This is a qualification awarded by this University, equivalent to 1,500 hours, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH is a Private Institution of Higher Education recognized by the Ministry of Public Education as of June 28, 2018.

June 17, 2020

Tere Guevara Navarro
Dean

This qualification must always be accompanied by the university degree issued by the competent authority to practice professionally in each country.   Unique TECH Code: AFWORD23S   techtitute.com/certificates

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Professional Master's Degree in Research in Nursing

Subject type	Hours
Compulsory (CO)	1,500
Optional (OP)	0
External Work Placement (WP)	0
Master's Degree Thesis (MDT)	0
Total	1,500

General Structure of the Syllabus

Year	Subject	Hours	Type
1º	Fundamentals of Health Science Research	172	CO
1º	Qualitative Research	166	CO
1º	Quantitative Research	166	CO
1º	Data Analysis and Management	166	CO
1º	Bioethics in Nursing Research	166	CO
1º	Information and Communication Technologies	166	CO
1º	Statistics	166	CO
1º	Research Quality	166	CO
1º	Research Lines in Nursing	166	CO

Tere Guevara Navarro
Dean

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*Apostille Convention. In the event that the student wishes to have their paper certificate issued with an apostille, TECH EDUCATION will make the necessary arrangements to obtain it, at an additional cost.

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