

# Postgraduate Certificate

## Statistics, Psychometry and Taxonomies for Mental Health Nurses





## Postgraduate Certificate Statistics, Psychometry and Taxonomies for Mental Health Nurses

- » Modality: Online
- » Duration: 6 weeks
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtute.com/us/nursing/postgraduate-certificate/statistics-psychometry-taxonomies-mental-health-nurses](http://www.techtute.com/us/nursing/postgraduate-certificate/statistics-psychometry-taxonomies-mental-health-nurses)

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# 01

# Introduction

Awareness of Mental Health problems has highlighted the importance of using efficient psychometric and taxonomic techniques to evaluate the patient's condition and adapt care to it in a solvent manner. Therefore, the proper application of the updated methods of these disciplines by nurses greatly favors the recovery of the individual, so their mastery is essential for these professionals. Given this circumstance, this institution has designed this program, with which the student will expand their skills in the use of NANDA-NOC-NIC taxonomies or handle the most avant-garde theories of Psychometry. All this, online and without having to rely on airtight schedules to position yourself as a first-rate nurse.





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*Increase your knowledge, thanks to this program, in the application of NANDA-NOC-NIC nursing taxonomies in the hospital environment"*



Statistics, Psychometry and Taxonomy are excellent allies in the field of Mental Health Nursing to thoroughly assess the psychological characteristics of each patient and observe the possible scope of their pathology. Later, especially this last science, allows optimizing the application of care to each patient to help him to overcome his disease with maximum efficiency. The benefits provided by these disciplines to ensure the well-being of each person lead nurses to have high skills in these areas to improve their health performance and be at the forefront of their sector.

Faced with this situation, TECH has promoted the creation of this degree, through which the student will incorporate in his work methodology the most relevant and up-to-date knowledge in Statistics, Psychometry and Taxonomies for Mental Health Nursing. During 6 weeks of intensive learning, you will master the use of the most common parametric tests for the analysis of quantitative data or handle the validation methods of the psychometric tests performed. In the same way, it will identify the most innovative mechanisms of application of NANDA-NOC-NIC taxonomies in the hospital environment, acquiring then skills that will make it a reference professional in the field of Mental Health.

Thanks to the 100% online methodology in which this Postgraduate Certificate is developed, the student will be able to achieve effective learning through the elaboration of their study schedules. In addition, this program is designed and taught by nurses specialists in Mental Health with a wide hospital background, so all the knowledge they will provide will have been applied in their own professional experiences.

This **Postgraduate Certificate in Statistics, Psychometry and Taxonomies for Mental Health Nurses** 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 Mental Health for Nursing
- ♦ 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
- ♦ Practical exercises where self-assessment can be used 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



*The Postgraduate Certificate in Statistics, Psychometrics and Taxonomies for Mental Health Nurses will allow you to manage the main psychometric tests and their most effective validation methods”*

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*In just 6 weeks, you will be able to update your knowledge regarding Statistics, Psychometry and Taxonomies in the field of Mental Health Nursing”*

The program's teaching staff includes professionals from the field who contribute their work experience to this educational program, as well as renowned specialists from leading societies 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 immersive education programmed to learn in real situations.

This program is designed around Problem-Based Learning, whereby the professional must try to solve the different professional practice situations that arise during the academic year. For this purpose, the students will be assisted by an innovative interactive video system created by renowned and experienced experts.

*Choose the textual or multimedia format that best suits your learning needs and achieve a quick and enjoyable teaching.*

*Combine your work with your excellent learning with the study facilities offered by TECH.*



# 02 Objectives

This Postgraduate Certificate has been prepared with the intention of giving the student the latest advances and essential knowledge in statistics, psychometry and taxonomies for Mental Health Nursing. During this academic period, they will identify the application of the scientific and experimental method in nurse psychological work or master the different theories of psychometry. All this, preserved through the monitoring of general and specific objectives designed by TECH.





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*Incorporate in your work methodology the latest knowledge in Statistics, Psychometry and Taxonomies for Mental Health Nursing through this program”*



## General Objectives

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- ◆ Explain the diagnosis, etiology, pathophysiology, and prevention of mental illness
- ◆ Identify risk factors for mental illness
- ◆ Identify signs and symptoms that indicate mental illness
- ◆ Develop techniques to explain and apply patient self-care to prevent mental health disorders



*Throughout this program, you will increase your skills in the application of NANDA-NOC-NIC taxonomies for patient care”*





## Specific Objectives

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- ◆ Define and control psychological variables
- ◆ Delve into the use of psychometrics in mental health research
- ◆ Perform quantitative data analysis
- ◆ Explain the models and theories of Mental Health Nursing
- ◆ Master the Nursing Care Process in people with mental disorders
- ◆ Apply the NANDA-NOC-NIC taxonomies





03

# Course Management

Thanks to the tireless commitment of TECH to promote quality teaching, this program has a teaching team made up of cutting-edge nurses specialized in Mental Health, active in several hospitals located throughout the Spanish geography. These professionals are responsible for specifically the design and Realization of all the didactic materials that students will have at their disposal throughout this Postgraduate Certificate. Therefore, all the resources provided will preserve a constant update.



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*The teaching staff of this Postgraduate Certificate is made up of nurses specialized in Mental Health to offer you the knowledge with greater professional applicability in this area”*



## Management



### Ms. Peña Granger, Mercedes

- Head of Adult Psychiatry Nursing Unit at General University Gregorio Marañón Hospital, Madrid
- EIR Mental Health Tutor in Multidisciplinary Teaching Unit at Gregorio Marañón General University Hospital, Madrid
- Associate Professor at the University of Comillas and the University of Rey Juan Carlos
- Graduate in Nursing from the Complutense University of Madrid
- Diploma in Nursing Psychosomatics from the Complutense University of Madrid
- Degree in Social and Cultural Anthropology from the Complutense University of Madrid
- Degree in Nursing from Rey Juan Carlos University
- Mental Health Specialist. Ministry of Health
- Master's Degree in the Humanization of Health Institutions from the European University of Madrid



### **Mr. Lozano Alonso, Raúl**

- ♦ Head of Nursing of the Drug Addiction Disorders Unit at Hestia Esquerdo Hospital
- ♦ President of the Madrid Association of Mental Health Nurses
- ♦ Professor at the University School of Nursing of the Red Cross from the Autonomous University of Madrid
- ♦ Personalized Trainer in MIR exams at CEMIR-Team POE
- ♦ Faculty member of Nus Agency
- ♦ Nursing Services in Quirónsalud
- ♦ Community Care Nurse in the Madrid Health Service (SERMAS)
- ♦ University Professor at Rey Juan Carlos University
- ♦ Assistant University Professor at the Autonomous University of Madrid
- ♦ Diploma in Nursing
- ♦ Specialist Nurse in Mental Health via EIR entrance exams
- ♦ Master's Degree in Nursing Sciences
- ♦ Master's Degree in Health Services Management and Telemedicine

## Professors

### Ms. Cunillera Llorente, Alicia Hatshepsut

- ◆ Specialist Nurse in Mental Health
- ◆ Nurse of the Short Psychiatric Hospitalization Unit at the Gregorio Marañón General University Hospital, Madrid
- ◆ Nurse of the Food Disorders Unit at the Gregorio Marañón General University Hospital, Madrid
- ◆ Nurse from the Personality Disorders Unit at the PhD Rodríguez Lafora Hospital
- ◆ Speaker at congresses and conferences specialized in Mental Health
- ◆ Degree in Nursing from the Pontificia de Comillas University

### Ms. Borrego Espárrago, María Victoria

- ◆ Nursing Supervisor of in Hospitalization at the Ruber Juan Bravo Hospital Complex
- ◆ Nurse Mental Health Specialist at Sisters Hospitals of the Sacred Heart of Jesus
- ◆ Nursing Supervisor of the Psychosocial Rehabilitation Area at the San Miguel Clinic
- ◆ Author of numerous Specialized publications
- ◆ Diploma in Nursing from the Autonomous University of Madrid
- ◆ Diploma in Nursing by EUE Red Cross
- ◆ Postgraduate Diploma Degree in Health Services Management through the University CEU Cardenal Herrera
- ◆ Member of: Board of Directors of the Spanish Association of Nursing of Mental Health and Advisory Commission of Care of the Regional Office of the Community of Madrid





**Ms. González Palomar, María Esther**

- ◆ Specialist Nurse in Mental Health
- ◆ Head of the Nursing Unit of Adolescent Psychiatry at the Gregorio Marañón University General Hospital
- ◆ Postgraduate Certificate in Nursing from the Complutense University
- ◆ Postgraduate Certificate in Social Work at Complutense University
- ◆ Specialist in Mental Health Nursing
- ◆ University Diploma in Surgical Nursing
- ◆ University Diploma in Coronary Unit Nursing
- ◆ University Diploma in Psychiatric Nursing

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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 curriculum of this course consists of 2 modules through which the nurse will significantly expand their knowledge in the application of statistics, the use of the scientific method and psychometry in matters of mental health for nursing. All teaching resources available during the duration of this academic program are accessible in different textual and multimedia media. With this, it is preserved an online teaching, available during the 24 hours, and adapted to the preferences of study of each student.





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*The 100% online methodology feature of this degree will allow you to enjoy excellent learning without relying on strict pre-set timetables”*

## Module 1. Statistics, Scientific Method, and Psychometrics

- 1.1. Statistics
  - 1.1.1. Introduction
  - 1.1.2. Descriptive Statistics with One Variable
  - 1.1.3. Correlation
  - 1.1.4. Regression
  - 1.1.5. Introduction to Probability
  - 1.1.6. Probability
  - 1.1.7. Introduction to Inferential Statistics
  - 1.1.8. Quantitative Data Analysis: The Most Common Parametric Tests
  - 1.1.9. Non-Parametric Contrasts
- 1.2. The Scientific Method and The Experimental Method
  - 1.2.1. Introduction to The Scientific Method
  - 1.2.2. Definition and Control of Psychological Variables
  - 1.2.3. The Design of the Experiment
  - 1.2.4. Unifactorial Designs
  - 1.2.5. Factorial Designs
  - 1.2.6. Quasi-Experimental Designs
  - 1.2.7. N-of-1 Designs
  - 1.2.8. Surveys
- 1.3. Psychometry
  - 1.3.1. Introduction
  - 1.3.2. Classical Test Theory
  - 1.3.3. Generalizability Theory
  - 1.3.4. Item Response Theory
  - 1.3.5. Validity

## Module 2. Fundamentals of Mental Health Nursing

- 2.1. Models and Theories of Mental Health Nursing
- 2.2. The Nursing Care Process for People with Mental Disorders
- 2.3. NANDA-NOC-NIC Taxonomies and their Practical Application





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*Enroll in this program to learn through teaching materials present in formats such as video or interactive summary, which will completely liven up your academic experience”*



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 Statistics, Psychometry and Taxonomies for Mental Health Nurses guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Technological University.





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

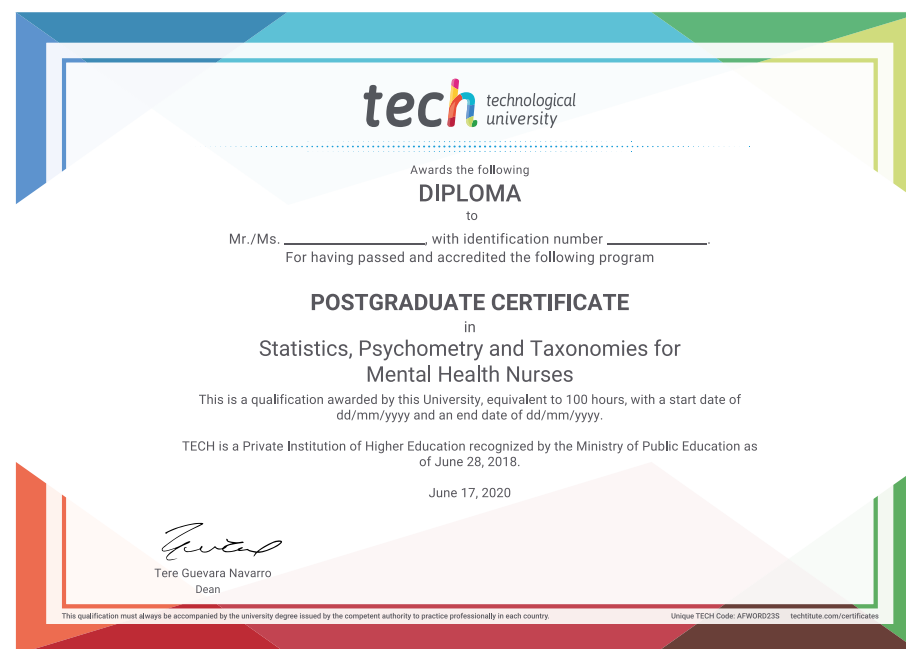
This **Postgraduate Certificate in Statistics, Psychometry and Taxonomies for Mental Health Nurses** contains the most complete and up-to-date scientific on the market.

After the student has passed the assessments, they will receive their corresponding **Postgraduate Certificate** issued by **TECH Technological University** via tracked delivery\*.

The diploma issued by **TECH Technological University** will reflect the qualification obtained in the Postgraduate Certificate, and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees.

Title: **Postgraduate Certificate in Statistics, Psychometry and Taxonomies for Mental Health Nurses**

Official N° of Hours: **100 h.**



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



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health confidence people  
education information tutors  
guarantee accreditation teaching  
institutions technology learning  
community commitment  
personalized service innovation  
knowledge present  
development language  
virtual classroom



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