

# Postgraduate Certificate

## Research Methodology in Neuropsychology



## Postgraduate Certificate Research Methodology in Neuropsychology

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

Website: [www.techtute.com/pk/education/postgraduate-certificate/research-methodology-neuropsychology](http://www.techtute.com/pk/education/postgraduate-certificate/research-methodology-neuropsychology)

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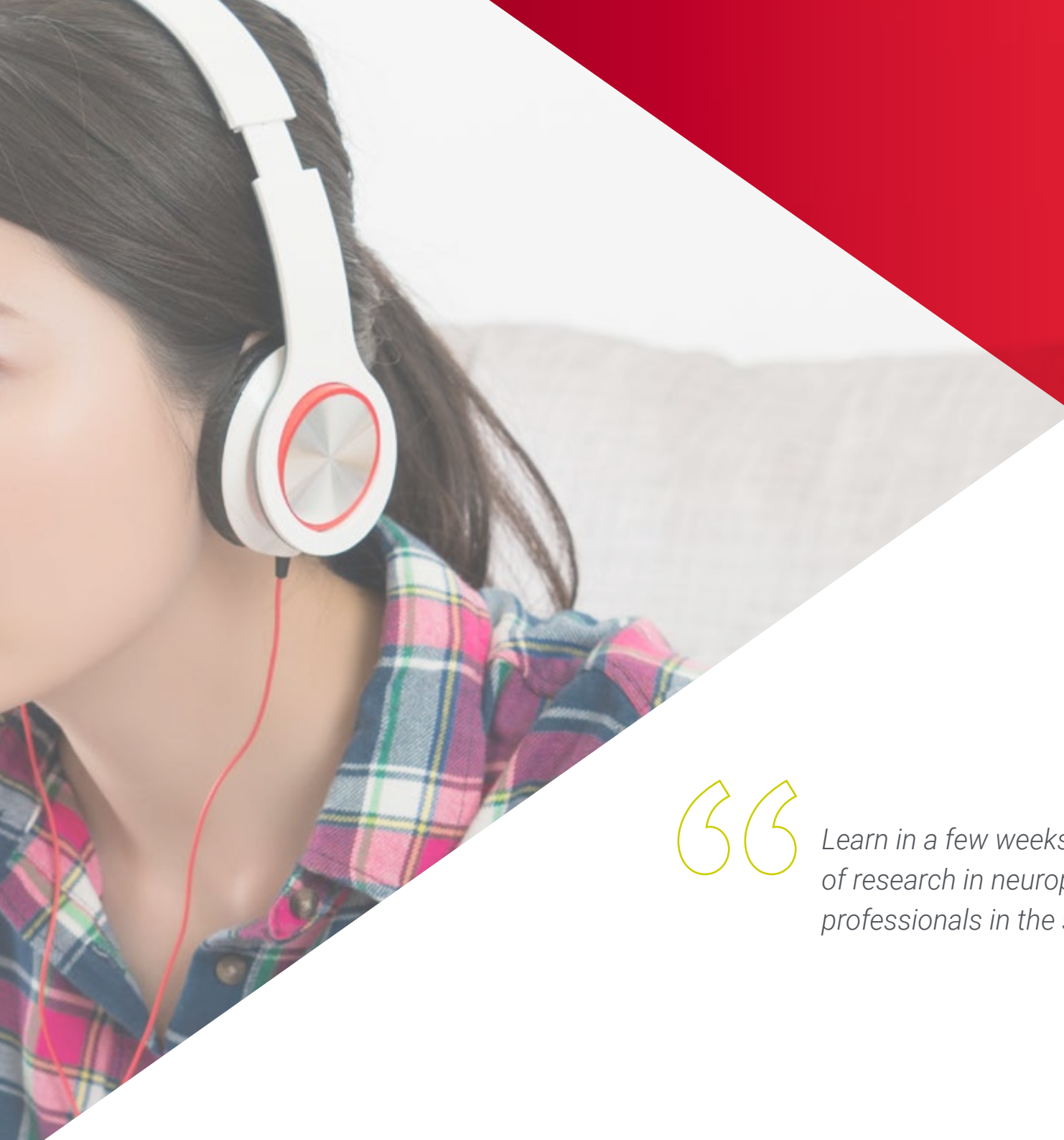
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# 01

# Introduction

Conducting research in the field of neuropsychology is one of the most exciting avenues for learning and professional growth. In order to be able to perform it in a well-founded way and collect data of high interest, we offer you a course that will lead you to learn and master the necessary specific methodology. A highly qualified training for the professional in this scientific discipline.





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*Learn in a few weeks, the specific methodology of research in neuropsychology, from the best professionals in the sector"*

The work of neuropsychology is complex. It covers a broad spectrum of intervention that requires the professional to have very specific training in the various branches of brain development. This discipline, deeply linked to neurology and the physiological study of the brain, is affected by the changes that the evolution of knowledge in this scientific branch achieves. This means for the professional an intense challenge of permanent updating that allows them to be at the forefront in terms of approach, intervention and follow-up of the cases that may arise in their consultation.

Throughout this training, the student will go through all the current approaches in the work of the neuropsychologist in the different challenges that his/her profession presents.

The functioning of memory, language, the relationship between laterality and cognitive development, sensoriality and many other aspects, will be the topics of work and study that the student will be able to integrate in their training. A high-level step that will become a process of improvement, not only on a professional level, but also on a personal level.

This challenge is one of TECH's social commitments: to help highly qualified professionals to training and to develop their personal, social and labor competencies during the course of their training.

We will not only take you through the theoretical knowledge we offer, but we will introduce you to another way of studying and learning, one which is simpler, more organic and more efficient. We will work to keep you motivated and to create in you a passion for learning. And we will push you to think and develop critical thinking.

This **Postgraduate Certificate in Research Methodology in Neuropsychology** contains the most complete and up-to-date educational program on the market. The most important features of the Postgraduate Certificate are:

- ♦ 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
- ♦ Banks of complementary documentation permanently available, even after the course



*A training created for professionals who aspire to excellence and that will allow you to acquire new skills and strategies in a smooth and effective way"*

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*From the choice of topic to the formulation of hypotheses, you will learn all the strengths of all research”*

Our teaching staff is made up of working professionals. In this way, we ensure that we provide you with the training update we are aiming for. A multidisciplinary team of professors with training and experience in different environments, who will develop the theoretical knowledge in an efficient way, but, above all, will bring their practical knowledge derived from their own experience in the course: one of the differential qualities of this postgraduate certificate.

This mastery of the subject is complemented by the effectiveness of the methodology used in the design of this course. Developed by a multidisciplinary team of e-learning experts, it integrates the latest advances in educational technology. This way, you will be able to study with a range of comfortable and versatile multimedia tools that will give you the operability you need in your training.

The design of this program is based on Problem-Based Learning: an approach that conceives learning as a highly practical process. To achieve this remotely, we will use telepractice learning: with the help of an innovative interactive video system, and learning from an expert, you will be able to acquire the knowledge as if you were actually dealing with the scenario you are learning about. A concept that will allow you to integrate and fix learning in a more realistic and permanent way.

*An effective and proactive way to offer students new ways to improve and progress*

*Become an agent of change in the educational system, working in line with real integration*



# 02

# Objectives

Our objective is to train highly qualified professionals for work experience. An objective that is complemented, moreover, in a global manner, by promoting human development that lays the foundations for a better society. This objective is focused on helping professionals reach a much higher level of expertise and control. A goal that, in just six months, you will be able to achieve with a highly intensive and precise course.







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*If your goal is to improve in your profession and acquire a qualification that will enable you to compete with the best, then look no further: Welcome to TECH”*



## General Objectives

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- ♦ Qualify professionals for the practice of neuropsychology in the development of children and youth
- ♦ Learn how to carry out specific programs to improve school performance
- ♦ Access the forms and processes of research in neuropsychology in the school environment
- ♦ Increase the capacity for work and autonomous resolution of learning processes
- ♦ Study the attention to diversity from the neuropsychological approach.
- ♦ Learn about the different ways to implement enrichment systems for learning methodologies in the classroom, especially aimed at diverse students
- ♦ Analyze and integrate the knowledge necessary to foster students' school and social development





## Specific Objectives

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- Devise, develop and analyze comprehensive research in the area of neuropsychology in the educational setting.



03

# Course Management

For our master's degree to be of the highest quality, we are proud to work with a teaching staff of the highest level, chosen for their proven track record in the field of education. Professionals from different areas and fields of expertise that make up a complete, multidisciplinary team. A unique opportunity to learn from the best.



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*Our teachers, professionals with vast experience bring their experience and their teaching skills to offer you a stimulating and creative training training program”*

## Management



### Sánchez Padrón, Nuria Ester

- ♦ Degree in Psychology from the University of La Laguna
- ♦ Postgraduate Certificate in General Health Psychology from the University of La Rioja
- ♦ Training in Emergency Psychological Care
- ♦ Training in Psychological Care in Penitentiary Institutions
- ♦ Teaching and training experience
- ♦ Experience in educational attention to children at risk



# 04

## Structure and Content

The contents of this training have been developed by the different Professors on this course, 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.

The content of this course enables you to learn all aspects of the different disciplines involved in this field: A complete and well-structured program that will take you to the highest standards of quality and success.







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*Our curriculum has been designed with teaching effectiveness in mind: so that you learn faster, more efficiently, and on a more permanent basis”*

## Module 1. Research Methodology I

- 1.1. Research Methodology
  - 1.1.1. Introduction
  - 1.1.2. The Importance of Research Methodology
  - 1.1.3. Scientific Knowledge
  - 1.1.4. Research Approaches
  - 1.1.5. Summary
  - 1.1.6. Bibliographical References
- 1.2. Choosing the Topic to Research
  - 1.2.1. Introduction
  - 1.2.2. The Issue of Research
  - 1.2.3. Defining the Problem
  - 1.2.4. Choice of the Research Question
  - 1.2.5. Research Objectives
  - 1.2.6. Variables: Types
  - 1.2.7. Summary
  - 1.2.8. Bibliographical References
- 1.3. Research Proposal
  - 1.3.1. Introduction
  - 1.3.2. Research Hypothesis
  - 1.3.3. Feasibility of the Research Project
  - 1.3.4. Introduction and Justification of the Research
  - 1.3.5. Summary
  - 1.3.6. Bibliographical References
- 1.4. Theoretical Framework
  - 1.4.1. Introduction
  - 1.4.2. Elaboration of the Theoretical Framework
  - 1.4.3. Resources Used
  - 1.4.4. APA Standards
  - 1.4.5. Summary
  - 1.4.6. Bibliographical References
- 1.5. Bibliography
  - 1.5.1. Introduction
  - 1.5.2. Importance of Bibliographic References
  - 1.5.3. How to Reference according to APA Standards
  - 1.5.4. Format of Annexes: Tables and Figures
  - 1.5.5. Bibliography Managers: What Are They and How to Use Them
  - 1.5.6. Summary
  - 1.5.7. Bibliographical References
- 1.6. Methodological Framework
  - 1.6.1. Introduction
  - 1.6.2. Roadmap
  - 1.6.3. Sections to be Included in the Methodological Framework
  - 1.6.4. The Population
  - 1.6.5. The Sample
  - 1.6.6. Variables:
  - 1.6.7. Instruments
  - 1.6.8. Procedure
  - 1.6.8. Summary
  - 1.6.10. Bibliographical References
- 1.7. Research Designs
  - 1.7.1. Introduction
  - 1.7.2. Types of Designs
  - 1.7.3. Characteristics of the Designs Used in Psychology
  - 1.7.4. Research Designs Used in Education
  - 1.7.5. Research Designs Used in Education Neuropsychology
  - 1.7.6. Summary
  - 1.7.7. Bibliographical References
- 1.8. Quantitative Research
  - 1.8.1. Introduction
  - 1.8.2. Designing Randomized Groups
  - 1.8.3. Designing Randomized Groups with Blocks
  - 1.8.4. Other Designs used in Psychology

- 1.8.5. Statistical Techniques in Quantitative Research
- 1.8.6. Summary
- 1.8.7. Bibliographical References
- 1.9. Quantitative Research II
  - 1.9.1. Introduction
  - 1.9.2. Unifactor Intrasubject Designs
  - 1.9.3. Techniques for Controlling the Effects of Intrasubject Designs
  - 1.9.4. Statistical Techniques
  - 1.9.5. Summary
  - 1.9.6. Bibliographical References
- 1.10. Results
  - 1.10.1. Introduction
  - 1.10.2. How to Gather Data
  - 1.10.3. How to Analyze Data
  - 1.10.4. Statistical Programs
  - 1.10.5. Summary
  - 1.10.6. Bibliographical References
- 1.11. Descriptive Statistics
  - 1.11.1. Introduction
  - 1.11.2. Research Variables
  - 1.11.3. Quantitative Analyses
  - 1.11.4. Qualitative Analyses
  - 1.11.5. Resources that Can Be Used
  - 1.11.6. Summary
  - 1.11.7. Bibliographical References
- 1.12. Hypothesis Contrast
  - 1.12.1. Introduction
  - 1.12.2. Statistical Hypotheses
  - 1.12.3. How to Interpret Significance (p-value)
  - 1.12.4. Criteria for Analyzing Parametric and Non-Parametric Tests
  - 1.12.5. Summary
  - 1.12.6. Bibliographical References
- 1.13. Correlational Statistics and Independence Analysis
  - 1.13.1. Introduction
  - 1.13.2. Pearson Correlation
  - 1.13.3. Spearman's Correlation and Chi-Square
  - 1.13.4. Results
  - 1.13.5. Summary
  - 1.13.6. Bibliographical References
- 1.14. Group Comparison Statistics
  - 1.14.1. Introduction
  - 1.14.2. Mann-Whitney T-Test and Mann-Whitney U-Test
  - 1.14.3. T-Test and Wilcoxon Signed Ranges
  - 1.14.4. The Results
  - 1.14.5. Summary
  - 1.14.6. Bibliographical References
- 1.15. Discussion and Conclusions
  - 1.15.1. Introduction
  - 1.15.2. What is the Discussion
  - 1.15.3. Organization of the Discussion
  - 1.15.4. Conclusions
  - 1.15.5. Limitations and Outlook
  - 1.15.6. Summary
  - 1.15.7. Bibliographical References
- 1.16. Elaboration of the Professional Masters Degree Final Project
  - 1.16.1. Introduction
  - 1.16.2. Front Page and Contents
  - 1.16.3. Introduction and Justification
  - 1.16.4. Theoretical Framework
  - 1.16.5. Methodological Framework
  - 1.16.6. The Results
  - 1.16.7. Intervention Program
  - 1.16.8. Discussion and Conclusions
  - 1.16.9. Summary
  - 1.16.10. Bibliographical References

05

# Methodology

This training provides you with a different way of learning. Our methodology uses a cyclical learning approach: *Re-learning*.

This teaching system is used 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 Re-learning, 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"*

## En TECH Education School empleamos el Método del caso

In a given situation, what would you do? Throughout the program, you will be presented with multiple simulated cases based on real situations, where you will have to investigate, establish hypotheses and, finally, resolve the situation. There is abundant scientific evidence on the effectiveness of the method.

*With TECH, educators will experience a learning methodology that is shaking the foundations of traditional universities around the world*



*It is a technique that develops critical skills and prepares educators to make decisions, defend their arguments, and contrast opinions*

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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. Educators 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 is solidly focused on practical skills that enable educators to better integrate knowledge into daily practice.
3. Ideas and concepts are understood more efficiently, given that the example situations are based on real-life teaching.
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.



## Re-learning Methodology

At TECH we enhance the Harvard case method with the best 100% online teaching methodology available: Re-learning.

Our 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; a real revolution with respect to simply studying and analyzing cases.



*Educators 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 Re-learning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best Spanish-speaking online university (Columbia University).

Using this methodology, we have trained more than 85,000 educators with unprecedented success in all specialties. Our teaching methodology is developed in a highly demanding environment, where the students have a strong socio-economic profile, and their average age is 43.5 years.

*Re-learning 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 (we learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

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



In this program you will have access to the best educational material, prepared with you in mind:



### Study Material

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

This content is then adapted in an audiovisual format that will create our way of working online, with the latest techniques that allow us to offer you high quality in all of the material that we provide you with.



### Educational Techniques and Procedures on Video

We introduce you to the latest techniques, with the latest educational advances, and to the forefront of Education today. All this, in first person, with the maximum rigor, explained and detailed for your assimilation and understanding. And best of all, you can watch them as many times as you want.



### Interactive Summaries

We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

This unique multimedia content presentation training system was awarded by Microsoft as a "European Success Story".



### Additional Reading

Recent articles, consensus documents, international guides. in our virtual library you will have access to everything you need to complete your training.





**Expert-Led Case Studies and Case Analysis**

Effective learning ought to be contextual. Therefore, we will present you with real case developments in which the expert will guide you through 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 your knowledge throughout the program, through assessment and self-assessment activities and exercises: so that you can see how you are achieving your 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 our future difficult decisions.



**Quick Action Guides**

We offer you the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical, and effective way to help you progress in your learning.



06

# Certificate

Through a different and stimulating learning experience, you will be able to acquire the necessary skills to take a big step in your training. An opportunity to progress, with support and monitoring of a modern and specialized university, which will propel you to another professional level.



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*Include in your training a Postgraduate Certificate in Research Methodology: A huge step forward in your competitiveness in the sector”*

This **Postgraduate Certificate in Research Methodology in Neuropsychology** contains the most complete and up-to-date educational program on the market.

After students have passed the assessments, they will receive their **Postgraduate Certificate** issued by **TECH Technological University**.

The certificate issued by **TECH Technological University** will express the qualification obtained in the University Course, and will meet the requirements commonly demanded by labour exchanges, competitive examinations and professional career evaluation committees.

Title: **Postgraduate Certificate in Research Methodology in Neuropsychology**

ECTS: **6**

Official Number of Hours: **150**



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



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