

# Postgraduate Diploma Design, Implementation and Assessment of Research Plans



## Postgraduate Diploma

### Design, Implementation and Assessment of Research Plans

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Global University
- » Credits: 18 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtitute.com/us/psychology/postgraduate-diploma/postgraduate-diploma-design-implementation-assessment-research-plans](http://www.techtitute.com/us/psychology/postgraduate-diploma/postgraduate-diploma-design-implementation-assessment-research-plans)

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# 01

# Introduction

This program will prepare you to develop works of design, implementation and assessment of research plans in the field of Psychology, basing them on the most advanced methodologies and techniques. Take advantage of the opportunity and become a researcher with solid and secure foundations through this academic program and the latest educational technology 100% online.



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*The Postgraduate Diploma in Design, Implementation and Assessment of Research Plans will help you update your knowledge in research and qualify you as a practicing professional”*

The Postgraduate Diploma in Design, Implementation and Assessment of Research Plans has been created with the aim of understanding that the development and improvement of research in the area of Psychology involves focusing not only on the content to be developed, but also on the different methodologies and techniques used to achieve the objectives set more efficiently. It aims to respond to the whole context that surrounds both the research itself and the field of knowledge in which the research is framed.

Learn the latest research methodologies in applied psychology, data analysis and evaluation; enhance your skills thanks to this program that will allow you to perform at the highest level in research in the area of psychology.

The educational program of this Postgraduate Diploma focuses on the techniques and methods of applied psychological research and the different applied documentation techniques.

Through this program, you will be able to incorporate the competencies associated with the researcher in psychology through a broad, objective and experiential description of the elements to be applied during your practice. From the most general to the most specific and transversal, analyzing all the stages that make up an investigation. Research is a fundamental section in any area, since all the existing theoretical content is based on it.

This **Postgraduate Diploma in Design, Implementation and Assessment of Research Plans** contains the most complete and up-to-date program on the market. The most important features include:

- ♦ The development of case studies presented by experts in Psychology and Scientific Research
- ♦ The graphic, schematic, and practical contents with which they are created provide scientific and practical information on the disciplines that are essential for carrying out research
- ♦ New developments and innovations in the research of the different fields of Psychology
- ♦ Practical exercises where the self-assessment process can be carried out to improve learning
- ♦ Algorithm-based interactive learning system for decision-making in the situations that are presented to the student
- ♦ Special emphasis on research 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



*This Postgraduate Diploma aims to provide a methodological renewal taking into account the demands of current research and offering the most innovative strategies and tools"*

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*With this Postgraduate Diploma you will delve into the techniques of design and assessment of research plans, so you will be able to enhance your ability to publish in the field of Psychology”*

It includes a very broad teaching staff of professionals belonging to the field of psychology, who bring to this program the experience of their work, in addition to recognized 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 an immersive learning experience designed to prepare for real-life situations.

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

*Increase the security in your profession, updating your knowledge through this Postgraduate Diploma.*

*This Postgraduate Diploma makes the difference between a professional with a lot of knowledge and a professional who knows how to apply it in research and scientific publication processes.*



# 02

# Objectives

The Postgraduate Diploma is oriented to researchers in the field of Psychology, so they can acquire the necessary tools to develop in the specific area, knowing the latest trends and delving into those issues that make up the forefront of this area of knowledge. Researchers will only be able to carry out their objectives successfully if they are adequately prepared.





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*The Postgraduate Diploma in Design, Implementation and Assessment of Research Plans will broaden your horizons as a psychologist and allow you to grow personally and professionally”*



### General Objective

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- Acquire the necessary skills to develop a research activity that will allow them to raise their methodological and performance level in the field of research in Psychology, using the appropriate tools within the context, which will allow them to grow both personally and professionally.



*Take the opportunity and take the step to get up to speed on the latest developments in the Design, Implementation and Assessment of Research Plans"*





## Specific Objectives

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### Module 1. Advanced Techniques of Data Analysis in Applied Psychology

- ♦ Know the different techniques of data analysis in applied psychology research: univariate and multivariate analysis and the fundamentals of structural equation models
- ♦ Learn about the most relevant advances in the field of test design and analysis in Psychology
- ♦ Know the most relevant methodological advances for the analysis of significant change in studies on social, clinical or educational intervention programs
- ♦ Adequately analyze and interpret data from different research questions, with the help of specialized software
- ♦ Analyze and interpret data from both qualitative and quantitative studies with the help of specialized software

### Module 2. Research Methods in Applied Psychology

- ♦ Know the basics of the different sampling procedures and their applications in behavioral science research
- ♦ Know the fundamentals and basic indicators of the data provided by systematic reviews and meta-analyses
- ♦ Know the deontological and ethical foundations of research in Applied Psychology
- ♦ Be able to determine the sample size necessary to carry out a research project in a population
- ♦ Know how to plan a research project, identifying and operationalizing the hypothesis
- ♦ Know how to correctly select the appropriate measurement instruments, as well as the participating subjects

### Module 3. Documentation Techniques and Preparation of Publications in Applied Psychology

- ♦ Be able to search for information using the databases of our discipline and other related disciplines
- ♦ Know how to adequately select relevant research results in relation to the object of study
- ♦ Adequately manage the bibliography through specialized software
- ♦ Know the basics of scientific writing style based on the APA standards
- ♦ Know the importance of publishing the results obtained in scientific research
- ♦ Discriminate the type of journal to which a future publication should be addressed
- ♦ Know how to adequately apply scientific criteria in the analysis of published works

03

# Structure and Content

The structure of the contents has been designed by a team of professionals in Psychology research, aware of the relevance of current specialization in order to delve into the area of knowledge and make publications of academic quality.

A close-up photograph of a wooden bookshelf. A white label is attached to the shelf, with the word "Investig" printed on it in a dark, serif font. The background is slightly blurred, showing the wooden structure of the shelf. The image is partially obscured by a large, diagonal, magenta-colored graphic element on the left side of the page.

Investig



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*This Postgraduate Diploma in Design, Implementation and Assessment of Research Plans contains the most complete and up-to-date program on the market”*

## Module 1. Advanced Data Analysis Techniques in Applied Psychology

- 1.1. Advanced Research Designs and Analysis in Psychology
  - 1.1.1. Research in Psychology
  - 1.1.2. Advanced Designs in Applied Psychology
  - 1.1.3. Advanced Analysis in Applied Psychology
- 1.2. Statistical Software for Advanced Research Designs
  - 1.2.1. IBM SPSS
  - 1.2.2. AMOS
- 1.3. Basic Statistics
  - 1.3.1. Descriptive Statistics
  - 1.3.2. Frequency Analysis in a Sample of Participants
  - 1.3.3. Relevant Parameters in Data Analysis
  - 1.3.4. Relationships Between Basic Statistical Parameters
- 1.4. Parametric and Non-Parametric Analyses
  - 1.4.1. Confirmatory Tests. Normality
  - 1.4.2. Confirmatory Tests. Homoscedasticity
  - 1.4.3. Non-Parametric Analyses
  - 1.4.4. Parametric Analysis
  - 1.4.5. Techniques for Interpretation of Results
- 1.5. Multivariate Models
  - 1.5.1. Classic Multivariate Models
  - 1.5.2. Multiple Linear Regression
  - 1.5.3. Logistic Regression
- 1.6. Structural Equation Models
  - 1.6.1. Causality and Model Structure
  - 1.6.2. Complete Structural Model
  - 1.6.3. Models of Structural Relationships
- 1.7. Design and Construction of Psychological Tests and Scales
  - 1.7.1. Importance of Psychological Measurement
  - 1.7.2. Measures of Aptitude vs. Measures of Knowledge
  - 1.7.3. Operationalization of Constructs into Observable Measures
- 1.8. Analysis of Psychological Tests and Scales
  - 1.8.1. Content Validity Analysis
  - 1.8.2. Reliability Analysis. Cronbach's Alpha, Test-Retest and Two-Half Method
  - 1.8.3. Item-Total Correlations
  - 1.8.4. Debugging of Test Items for Improvement
- 1.9. Methods of Assessing Change in Applied Psychology
  - 1.9.1. Research Hypothesis and Contrast
  - 1.9.2. Confirmation or Rejection of Hypothesis
  - 1.9.3. Analysis of Differences
  - 1.9.4. Interpretation of Change and Conclusions
- 1.10. Effect Sizes in Advanced Research
  - 1.10.1. Importance of Effect Sizes
  - 1.10.2. Effect Size Analysis as a Method for Confirming Differences
  - 1.10.3. Effect Size Calculation
  - 1.10.4. Interpretation and Forms of Representation of the Results

## Module 2. Research Methods in Applied Psychology

- 2.1. Fundamentals of the Scientific Method in Psychology
  - 2.1.1. The Scientific Method applied to Psychology
- 2.2. Ethics and Deontology in Psychology Research
  - 2.2.1. Ethics of Research in Psychology
  - 2.2.2. Professional Associations
  - 2.2.3. The Code of Conduct
  - 2.2.4. Ethics Committees in Psychology Research
- 2.3. Planning and Formulation of a Research Project
  - 2.3.1. Object of Study
  - 2.3.2. Target Population
  - 2.3.3. Operationalization of the Project
  - 2.3.4. Selection of Techniques and Future Analyses
- 2.4. Structure and Organization of a Research Project
  - 2.4.1. The Structure of the Research Project
  - 2.4.2. Sources of Project Financing
- 2.5. Introduction to Sampling Techniques
  - 2.5.1. Probabilistic Techniques
  - 2.5.2. Non-Probabilistic Techniques
- 2.6. Research Plans in Applied Psychology
  - 2.6.1. Different Approaches to the Problem
  - 2.6.2. Comparison Among Research Techniques
- 2.7. Cross-Sectional VS Longitudinal Designs
  - 2.7.1. Cross-Sectional Design as a Source of Data
  - 2.7.2. Longitudinal Designs and their Relationship to Statistical Power
  - 2.7.3. Advantages and Disadvantages of Each Design
- 2.8. Single Case Designs
  - 2.8.1. Evidence of Clinical Advances from Single-Case Investigations
  - 2.8.2. The Single Case as an Approach to the Research Problem
  - 2.8.3. Analysis and Interpretation of Single Case Results
- 2.9. APA Standards and Rules for Psychology
  - 2.9.1. The American Psychological Association and its Influence on Research
  - 2.9.2. APA Standards Seventh Edition
- 2.10. Meta-Analysis and Systematic Reviews
  - 2.10.1. Meta-Analysis as a Source of Previous Results
  - 2.10.2. Systematic Reviews as a Source of Previous Results
  - 2.10.3. Advantages and Disadvantages of Each Technique

### Module 3. Documentation Techniques and Preparation of Publications in Applied Psychology

- 3.1. Databases in Applied Psychology
  - 3.1.1. Databases as a Source of Information
  - 3.1.2. General Databases
  - 3.1.3. Psychology-Specific Databases
  - 3.1.4. Advanced Search in Databases
- 3.2. Citing and Referencing I. Text Citations
  - 3.2.1. Author-Based Citation
  - 3.2.2. In-Text Citations
- 3.3. Citing and Referencing II. Bibliographic References
  - 3.3.1. Books, Articles and Periodicals
  - 3.3.2. References from Other Sources of Information
- 3.4. Reference Management Software
  - 3.4.1. Mendeley" Software for Bibliographic References Management
  - 3.4.2. Uses and Portability of the Application
- 3.5. Effective Reading of Research Articles
  - 3.5.1. The Abstract as a General Source of Information
  - 3.5.2. Identifying the Essential Information in an Article
  - 3.5.3. Importance of the "Methods" Section
  - 3.5.4. Analysis of Results and Conclusions
  - 3.5.5. Authorship and Conflicts of Interest
- 3.6. Analysis and Synthesis of Research Results
  - 3.6.1. Extraction of Research Results
  - 3.6.2. Setting Up Data for Analysis
  - 3.6.3. Analysis of the Results Obtained
  - 3.6.4. Description and Synthesis of Conclusions







- 3.7. Formal Aspects of the Graphical Elements, Figures and Tables
  - 3.7.1. Indispensable Elements in the Graphic Representation of Figures
  - 3.7.2. Essential Elements in the Graphic Representation of Tables
  - 3.7.3. Presentation of Graphic Elements According to APA Standards. Figures
  - 3.7.4. Presentation of Graphic Elements According to APA Standards. Tables
- 3.8. Processes for Conducting a Systematic Review
  - 3.8.1. Object of Study of the Systematic Review
  - 3.8.2. Planning and Steps for the Implementation of the Systematic Review
  - 3.8.3. Selection of Databases and Journals
  - 3.8.4. Analysis and Synthesis of the Information Obtained
- 3.9. Selection of Journals for Publication
  - 3.9.1. Selection of the Potential Audience
  - 3.9.2. Discrimination of Potential Journals
  - 3.9.3. Analysis of Publication Criteria
- 3.10. Design and Preparation of the Scientific Article
  - 3.10.1. Conceptual Outline of the Research Adapted to the Criteria
  - 3.10.2. Writing a Scientific Article
  - 3.10.3. Translations of a Scientific Article
  - 3.10.4. Revision of Article Versions
  - 3.10.5. Reviewers' Comments and Corrections

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*Discover the importance of the professional's orientation towards research and the implications of effective accompaniment in this field”*

04

# 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 we use the Case Method

What should a professional do in a given situation? 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. Specialists learn better, faster, and more sustainably over time.

*With TECH the psychologist experiences a way of learning 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, trying to recreate the real conditions in the psychologist's professional 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. Psychologists who follow this method not only master the assimilation of concepts, but also develop their mental capacity by means of exercises to evaluate real situations and apply their knowledge.
2. Learning is solidly translated into practical skills that allow the psychologist to better integrate knowledge into clinical practice.
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.

Our university is the first in the world to combine the study of clinical cases 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 psychologist 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).

This methodology has trained more than 150,000 psychologists with unprecedented success in all clinical specialties. 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 training, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation for 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 our 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 highly 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.



#### Latest Techniques and Procedures on Video

TECH introduces students to the latest techniques, to the latest educational advances, to the forefront of current psychology. 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 the videos as many times as you like.



#### 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.



05

# Certificate

The Postgraduate Diploma in Design, Implementation and Assessment of Research Plans guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Diploma issued by TECH Global University.



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

This program will allow you to obtain your **Postgraduate Diploma in Design, Implementation and Assessment of Research Plans** endorsed by **TECH Global University**, the world's largest online university.

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

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

Title: **Postgraduate Diploma in Design, Implementation and Assessment of Research Plans**

Modality: **online**

Duration: **6 months**

Accreditation: **18 ECTS**



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

future

health confidence people

education information tutors

guarantee accreditation teaching

institutions technology learning

community commitment

**tech** global  
university

personalized service innovation

knowledge present

Design, Implementation  
and Assessment of  
Research Plans

online training

development language

virtual classroom

- » Modality: online
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- » Certificate: TECH Global University
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