

Postgraduate Certificate

Neuropsychology
of High Abilities





Postgraduate Certificate

Neuropsychology of High Abilities

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

Website: www.techtute.com/in/education/postgraduate-certificate/neuropsychology-high-abilities

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01

Introduction

The importance of the Neuropsychology of High Abilities in the teacher's field lies in its ability to understand and address the specific needs of these students. Additionally, ongoing research in this area helps to improve the assessment and educational intervention of individuals with higher intellectual abilities. In this way, by assimilating how their brains work and how they process information, educators can adapt their teaching methods to optimize learning, which is why their role at this stage becomes paramount. In response to this need, TECH has developed a 100% online program, giving teachers the versatility to reconcile their daily responsibilities with their updating process, since they will not be subject to rigid schedules.



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You will explore in depth the development of intelligence and unveil the enigma of the Flynn effect with this Postgraduate Certificate offered by TECH”

According to several studies, it has been observed that people with superior abilities may show differences in areas such as cognitive processing speed, working memory, selective attention, and mental flexibility. These neurocognitive variations may influence how these students acquire, process and retain information. Furthermore, this research highlights the importance of understanding neuropsychological inequalities in high school students and their influence on educational performance.

Furthermore, it provides additional evidence that the brain psychology of High Abilities can help teachers identify and provide appropriate educational support to these individuals, capitalizing on their cognitive strengths and promoting their educational success. Considering the above, it is essential for the teacher to keep up-to-date with the latest advances in research on cognitive neuroscience for high ability, as well as on differentiated mental functioning, brain growth and cognition. As their role is crucial in guiding, understanding, detecting and effectively addressing the needs of these individuals. This contributes to creating an inclusive and enriching educational environment focused on the integral development of these learners.

Based on this perspective, TECH has developed a Postgraduate Certificate in Neuropsychology of High Abilities, with the purpose of providing the educator with the most up-to-date knowledge on the latest advances and research in this field. In this way, you will be able to optimally guide students with outstanding abilities. A syllabus that incorporates the Relearning methodology and, additionally, will be offered in a completely online format. In addition, it offers the participant the opportunity to access at any time and place, since it only requires an electronic device with an Internet access.

This **Postgraduate Certificate in Neuropsychology of High Abilities** 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 High Abilities and Inclusive Education
- ♦ 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 the self-assessment process can be carried out 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



With this program, you will be able to delve into the neurobiological basis of high abilities and explore the hypotheses that explain these differences"

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You will explore in depth differential cognitive functioning and the theories that provide explanations for cognitive differences in High Abilities”

The program includes in its teaching staff professionals from the sector who bring to this program the experience of their work, as well as 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 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 educational year. For this purpose, the students will be assisted by an innovative interactive video system created by renowned and experienced experts.

Integrate the latest knowledge on metacognitive regulation into your educational practice and discover how to enhance it in your students.

In a short 6-week period, you will have the opportunity to investigate in depth the Endophenotypes or Neurobiological Markers and their link to High Abilities.



02

Objectives

The main purpose of this program is to provide the teacher with the most up-to-date knowledge regarding neuropsychological studies and techniques that can be applied with students of exceptional abilities. In order to achieve this goal, TECH has made available to participants a variety of multimedia resources that are available in a virtual library, which can be accessed 24 hours a day without restrictions.





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Through the 100% online modality of this program, you will have the ability to study the contributions to clinical diagnosis and identify and address psychological problems related to High Abilities”



General Objectives

- ♦ Train the participant to recognize and initiate the detection of students who present characteristics compatible with the high abilities spectrum
- ♦ Make known the main characteristics of high abilities, as well as the pedagogical, scientific, and legal framework in which this reality is framed
- ♦ Show students the main assessment tools, as well as the criteria to complete the process of indentifying the specific educational needs required for high-abilities individuals
- ♦ Enable students in the use of techniques and strategies for educational intervention, as well as for response orientation in different extracurricular areas
- ♦ Develop in students the capacity to elaborate specific adaptations, as well as to collaborate or to promote integral programs within the educational project and the attention plan for diversity at a center
- ♦ Value the multidimensionality of high capacities and the need for multiprofessional interventions with flexible and adaptive methodologies from an inclusive vision
- ♦ Consolidate innovation and the application of new technologies as a central and useful element in the educational process
- ♦ Awaken in the student the necessary sensitivity and initiative to become a catalyst for the paradigmatic change that will make an inclusive educational system possible





Specific Objectives

- ♦ Demonstrate the importance of emotions in the learning process
- ♦ Describe the advantages of play and motor activity in the learning process
- ♦ Organize small educational practices based on neuropedagogical evidence in order to determine their incidence
- ♦ Apply cognitive strategies to one's own learning process, as well as in teaching
- ♦ Understand the peculiarities of the adolescent brain and the mechanisms of reward, self-control and motivation
- ♦ Differentiate neuromyths applied in education from educational practices based on neuroeducational postulates
- ♦ Understand divergent thinking and creativity as a differential trait
- ♦ Review case studies in which specific educational needs derived from high abilities are addressed
- ♦ Identify successful educational responses based on the analysis of cases of specific educational needs
- ♦ Learn about the intervention focused on the improvement of self-esteem and self-knowledge of the individual
- ♦ Analyze problem solving strategies and their application with high-abilities students
- ♦ Learn the dimensions of learning and its planning focused on individual treatment
- ♦ Analyze gnostic, mnesic and attentional mechanisms and proposals for educational practice

03

Course Management

TECH has brought together in this Postgraduate Certificate a group of recognized teachers in the field of High Abilities, with an extensive work experience that includes the administration of institutions specialized in the care of students with outstanding intellectual abilities. With this team of experts, the teacher who participates in this program can be sure of acquiring the necessary knowledge from professionals specialized in this field.





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TECH has brought together leading experts in the field of High Abilities, who will guide you in creating strategies to enhance your students' cognitive processing"

Management



Dr. Medina Cañada, Carmen Gloria

- ♦ Director of the Instituto Canario de Altas Capacidades (Canary Islands Institute of High Capacities)
- ♦ Psychologist and Speech therapist at the Asperger Association of the Canary Islands (ASPERCAN)
- ♦ Psychologist and Speech Therapist in Yoyi
- ♦ Psychologist and Speech Therapist at the Center for Audiology and Speech Therapy Studies
- ♦ Psychologist of minors in the Psychological Guidance Area at ANSITE
- ♦ Bachelor's PhD in Pedagogy, University of La Laguna
- ♦ Bachelor's Degree in Pedagogy, University of La Laguna
- ♦ Degree in Primary Education by University of La Laguna

Professors

Mr. Hernández Felipe, Eduardo

- ♦ Psychologist Expert in High Capacities and Social Intervention
- ♦ Psychologist Responsible for an Immediate Care Center
- ♦ Child and Adolescent Psychologist at the DUO Center
- ♦ Psychologist at The Catholic Worker Farm
- ♦ Collaborator in the Canary Islands Institute of High Capacities
- ♦ Degree in Psychology from the University of La Laguna
- ♦ Master's Degree in Family Intervention from the University of Gran Canaria
- ♦ Master's Degree in General Health Psychology from the University of Valencia
- ♦ Master's Degree in High Abilities and Inclusive Education

Ms. Jiménez Romero, Yolanda

- ♦ Pedagogical advisor and External Educational Collaborator
- ♦ Academic Coordinator Online University in Campus
- ♦ Territorial Director of the Extremeño-Castilla La Mancha Institute of High Abilities
- ♦ Creation of INTEF Educational Content at the Ministry of Education and Science
- ♦ Degree in Primary Education, English specialization
- ♦ Psychopedagogue from the International University of Valencia
- ♦ Master's Degree in Neuropsychology of High Abilities
- ♦ Master's Degree in Emotional Intelligence Specialist in *NLP* Practitioner

D. Gris Ramos, Alejandro

- ♦ Technical Engineer in Computer Management
- ♦ CEO & Founder from Talent Club
- ♦ CEO Persatrace, Online Marketing Agency
- ♦ Business Development Director at Alenda Golf
- ♦ Director of the PI Study Center
- ♦ Director of Web Application Engineering Department at Brillogic
- ♦ Web programmer at Grupo Ibergest
- ♦ Software/web programmer at Reebok Spain
- ♦ Technical Engineer in Computer Management
- ♦ Master's Degree in Digital Teaching and Learning , Tech Education
- ♦ Master's Degree in High Abilities and Inclusive Education
- ♦ Master' s Degree in E-Commerce
- ♦ Specialist in the Latest Technologies Applied to Teaching, Digital Marketing, Web Application Development and Internet Business

Mr. Aznar Rodríguez, Francisco Javier

- ♦ Specialist in Psychopedagogy and High Capacities
- ♦ Neurosynchrony Manager (Alicante)
- ♦ Judicial Expert at the International Institute of High Capacities of the Community of Valencia
- ♦ Degree in Psychopedagogy from ULPGC
- ♦ Diploma in Primary School Education from the University of Las Palmas of Gran Canaria (ULPGC)
- ♦ Master's Degree in High Capacities from the CEU Cardenal Herrera University

Dr. Peguero Álvarez, María Isabel

- ♦ Specialist in Family and Community Medicine in the Extremeño Health Service
- ♦ Family Physician with Pediatric duties in Primary School Care
- ♦ Coordinator of the Primary School team in the Extremadura Health Service
- ♦ Author of several publications related to high capacities and of the *Clinical Practice Guide in Primary School Care*
- ♦ Participation in various forums, congresses, and conferences related to high capacities

Ms. Rodríguez Ventura, María Isabel

- ♦ Director, Coordinator and Therapist at Gabinete Pedagógico Lanzarote SL
- ♦ Coordinator, Therapist and Head Pedagogue at Creciendo Yaiza Association
- ♦ Bachelor's Degree in Pedagogy, University of La Laguna
- ♦ Master's Degree in Intervention in Learning Difficulties from ISEP University
- ♦ Member of the Canary Institute of High-Capacity Individuals Lanzarote delegation





Ms. Pérez Santana, Lirian Ivana

- ♦ Psychologist Specialized in High Capacities
- ♦ Director of the Instituto Canario de Altas Capacidades (Canary Institute of High Capacities)
- ♦ Guidance Counselor at IES Vega de San Mateo
- ♦ Guidance counselor at CPEIPS Nuestra Señora de las Nieves
- ♦ Bachelor's Degree in Pedagogy, University of La Laguna
- ♦ International Master's Degree in Forensic Psychology from the Spanish Association of Behavioral Psychology

Ms. Herrera Franquis, María del Carmen

- ♦ Director of the Canary Islands Psychological Center
- ♦ Director of the Canary Islands Institute of High-Capacity Individuals in Tenerife
- ♦ Teacher in university and postgraduate studies in Psychology
- ♦ Degree in Psychology
- ♦ Expert in the Psychological Approach to Personality Disorders in Childhood and Adolescence
- ♦ Member of the National Network of Psychologists for the Psychological Attention to Victims of Terrorism of the Ministry of the Interior

04

Structure and Content

The syllabus included in this program compiles the most relevant concepts within the field of Neuropsychology of High Abilities. In this way, the teacher will experience a unique learning process that will delve into areas such as introduction to Neuropsychology, Endophenotypes or neurobiological indicators, and brain functioning, and strategies for the classroom. In order to achieve this, TECH offers a wide range of multimedia resources, such as interactive summaries, which will be available anytime, anywhere, since only a device with Internet access is required.





A personalized syllabus designed to suit your needs, following the most effective pedagogical methodology, Relearning"

Module 1. Neuropsychology of High Abilities

- 1.1. Introduction to Neuropsychology
 - 1.1.1. Introduction to Neuropsychology
 - 1.1.2. Brain Development
 - 1.1.3. The Development of Intelligence
 - 1.1.4. The Flynn Effect
- 1.2. Neurobiological Basis of High Capacities
 - 1.2.1. Introduction to Differences in AACC
 - 1.2.2. AACC Skull Size Hypothesis
 - 1.2.3. AACC Process Differentiation Hypothesis
 - 1.2.4. AACC Neuronal Hyperconnectivity Hypothesis
 - 1.2.5. Neuronal Inhibition in AACC
 - 1.2.6. Neuronal Plasticity in AACC
- 1.3. Differential Cognitive Functioning
 - 1.3.1. Cognitive Differences in AACC
 - 1.3.2. Positive Decay Theory
 - 1.3.3. Resource Management Optimization
 - 1.3.4. The Over-Optimized Cognitive Process in AACC
 - 1.3.5. Cognitive Differences in Early Childhood
- 1.4. Metacognitive Regulation
 - 1.4.1. Defining Metacognition
 - 1.4.2. Development of Metacognition
 - 1.4.3. The Relation between Metacognition and Intelligence
 - 1.4.4. Training Metacognition
- 1.5. Endophenotypes or Neurobiological Markers
 - 1.5.1. The Origin of AACC
 - 1.5.2. Endophenotypes and AACCs
 - 1.5.3. Inheritability of AACC
 - 1.5.4. Neurobiological Markers of AACC
 - 1.5.5. Endophenotypes vs. Neurobiological Markers of AACC





- 1.6. Contributions to Clinical Diagnosis
 - 1.6.1. Psychological Problems and AACC
 - 1.6.2. AACC and ADHD
 - 1.6.3. AACC and Learning Disabilities
 - 1.6.4. AACC and Negativistic Defiant Disorder
 - 1.6.5. AACC and ASD
- 1.7. Plasticity and Brain Development
 - 1.7.1. Introduction to Neuronal Plasticity
 - 1.7.2. The Role of Neurogenesis
 - 1.7.3. Fragility of Neuronal Plasticity
 - 1.7.4. Brain Development in AACC
- 1.8. Cognitive Processing and Learning
 - 1.8.1. Cognitive Processes in AACC
 - 1.8.2. Sensation in the AACC
 - 1.8.3. Perception in AACC
 - 1.8.4. Attention in AACC
 - 1.8.5. Memory in AACC
 - 1.8.6. Emotion in AACC
 - 1.8.7. Learning in AACC
 - 1.8.8. PASS Theory
 - 1.8.9. Motivation in AACC
 - 1.8.10. The MEPS Model
- 1.9. Different Minds, Different Learning Experiences.
 - 1.9.1. Approximation to Differences in AACC
 - 1.9.2. Approach to AACC from the Talents
 - 1.9.3. Factors that Facilitate AACC
 - 1.9.4. Environment and AACC
 - 1.9.5. Characteristics of Students with AACC
- 1.10. Brain Functioning: Classroom Strategies
 - 1.10.1. AACC in Classroom
 - 1.10.2. Neuroeducation and AACC
 - 1.10.3. School Adaptations for AACC

05

Methodology

This training program offers 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 Education School we use the Case Method

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

With TECH, educators can 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 allow educators to better integrate the 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.



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 case studies with a 100% online learning system based on repetition, combining a minimum of 8 different elements in each lesson, which represent 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 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 85,000 educators with unprecedented success in all specialties. All this in a highly demanding environment, where the students have a strong socio-economic profile and an average age of 43.5 years.

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 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 specialist educators 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.



Educational Techniques and Procedures on Video

TECH introduces students to the latest techniques, with the latest educational advances, and to the forefront of Education. All this, first-hand, 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

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 multimedia content presentation training Exclusive system 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 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 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 Neuropsychology of High Abilities 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 Neuropsychology of High Abilities** contains the most complete and up-to-date program 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 certificate 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 Neuropsychology of High Abilities**

Official N° of hours: **100 h.**



*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.

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



Postgraduate Certificate Neuropsychology of High Abilities

- » Modality: online
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