Advanced Master's Degree Clinical Neuropsychology and Neuroeducation

> tech. global university

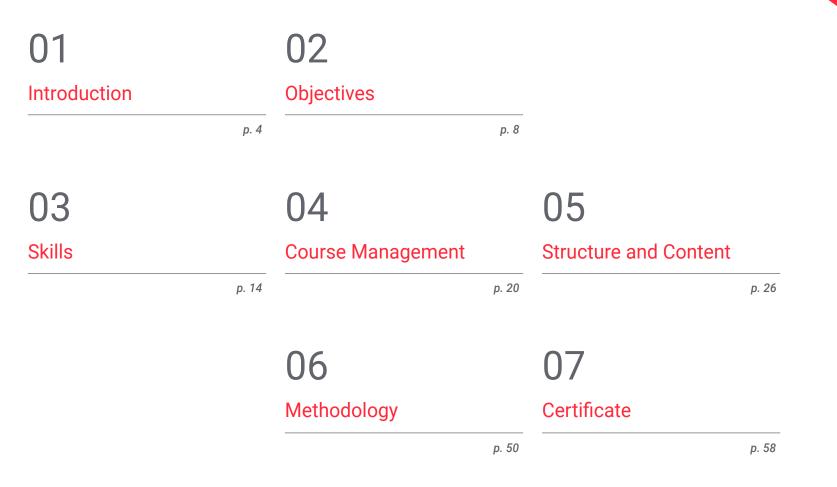


Advanced Master's Degree Clinical Neuropsychology and Neuroeducation

- » Modality: online
- » Duration: 2 years
- » Certificate: TECH Global University
- » Credits: 120 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: www.techtitute.com/us/education/advanced-master-degree/advanced-master-degree-clinical-neuropsychology-neuroeducation

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01 Introduction

Knowing how the brain works is essential in the field of health, but also in the field of education. Neuroeducation is one of the emerging sciences that is currently gaining more weight. This Advanced Master's Degree in Clinical Neuropsychology and Neuroeducation aims to bring the teaching professionals to a higher level of knowledge of the brain applied to these two areas, allowing them to detect certain problems in their students.

The basic processes of cognitive development in relation to learning and school development, in an intensive and comprehensive program"

tech 06 | Presentation

Neuropsychology is based on the natural scientific method to approach the study of the brain. Through the combination of the hypothetico-deductive and analytical-inductive methods the professionals of this discipline develop the therapeutic intervention both in individuals with congenital or supervening brain lesions, as well as in individuals without lesions.

This Advanced Master's Degree has two distinct but highly complementary areas of study. On the one hand, clinical neuropsychology and, on the other hand, neuroeducation. The objective of the first of these areas is to give the professional a mastery of the neurological and biochemical mechanisms that occur in mental illness and health. For its part, the work of neuropsychology in education aims to prepare education professionals in the brain aspects that influence education and learning.

The understanding of the chemical and anatomical structures involved in each of the processes within the field of health and also mental disorders, provides a global vision necessary for true mastery in the discernment of the human being, which joins the broad spectrum of intervention in specialization to give a comprehensive knowledge of the subject.

The relationship of brain biochemistry and limbic structures with basic emotions, as well as the way in which the reticular system affects our behavior and consciousness, are essential topics of this educational program. A Advanced Master's Degree that is complemented with the functioning of memory, language, the relationship between laterality and cognitive development, among other aspects.

Throughout this specialization, the student will learn all of the current approaches to the different challenges posed by their profession. 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 specialize and develop their personal, social and work skills during the course of their learning.

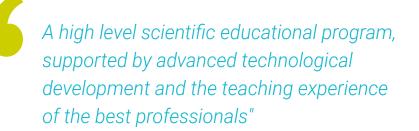
Not only will we take you through the theoretical knowledge offered, but we will show you another way of studying and learning, more organic, simpler and more efficient. We work to keep the student motivated and to create a passion for learning. We will encourage you to think and develop critical thinking.

This Advanced Master's Degree is designed to provide access to the specific knowledge of this discipline in an intensive and practical way. A great value for any professional.

This **Advanced Master's Degree in Clinical Neuropsychology and Neuroeducation** contains the most complete and up-to-date educational program on the market. The most important features include:

• The latest technology in e-learning software

- Intensely visual teaching system, supported by graphic and schematic contents that are easy to assimilate and understand.
- Practical case studies presented by practicing experts
- State-of-the-art interactive video systems
- Teaching supported by telepractice
- Continuous updating and recycling systems
- Self-regulated learning: full compatibility with other occupations
- Practical exercises for self-evaluation and learning verification
- Support groups and educational synergies: Questions to the expert, discussion forums and knowledge
- Communication with the teacher and individual reflection work
- Content that is accessible from any, fixed or portable device with an Internet connection
- The supporting documentation databanks are permanently available, even after the Progression



Introduction | 07 tech

An educational program created for professionals who aspire to excellence that will allow you to acquire new skills and strategies in a smooth and effective way"

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.

A deep and comprehensive dive into strategies and approaches in Clinical Neuropsychology and Neuroeducation.

The sensory systems of the human being studied from the neuropsychologist's point of view, with a view to intervention and improvement.

02 **Objectives**

The objective is to enable 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 you can take for granted, with a high-intensity and high-precision specialization.

Objectives | 09 tech

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"

tech 10 | Objectives



General Objectives

- Describe the overall working of the brain and the biochemistry that activates or inhibits it
- Use brain activity as a map for mental health disorders
- Describe the brain-mind relationship
- Develop knowledge of the technology which can provoke changes in the brain in order to overcome mental illnesses
- Describe the most common neurological disorders in psychological behavior
- Describe the relationship between the central nervous system, the endocrine system and immune systems
- Understand current psychopharmacology and integrate this knowledge into psychological tools that can improve mental illness
- Qualify professionals for the practice of neuropsychology in education in the development of children and young people
- 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 student's school and social development



Module 1. Basis of Neurosciences

- Describe the functioning of the nervous system.
- Explain the basic anatomy of structures related to learning.
- Define the basic physiology of learning-related structures.
- Identify the main brain structures related to motor skills.
- Define the plastic brain and neuroplasticity.
- Explain the effects of environment on brain development.
- Describe the changes in the infant's brain.
- Explain the evolution of the adolescent brain.
- Define the characteristics of the adult brain.

Module 2. Developmental Neuropsychology

- Identify the concepts between Coaching, Neuroscience, Neurolearning, basic learning devices, multiple intelligences, movement and learning, Neurodidactics, and play within the educational fields
- Know the functioning of the brain and its structures
- Establish the concepts of learning and the different levels, styles, types, and competences of learning
- Relate the Basic Learning Devices and Executive Functions in the development of activities.
- Know the multiple forms of intelligence and the feasibility of implementing them in the educational field.
- Recognize the importance of play as a tool for Neurodidactics and Learning

Objectives | 11 tech

- Implement Movement and Learning exercises in the classroom as learning sessions
- Relate Coaching with Neuroscience and the empowerment it generates in students
- Determine clearly the way to refer students

Module 3. Principles of Neuroanatomy

- Know the origins and the evolutionary process of the nervous system
- Obtain a general vision on the formation of the nervous system
- Know the fundamental basics of Neuroanatomy

Module 4. Introduction to Neuropsycholog

- Understand the importance and basic concepts of neuropsychology.
- Know the methods of evaluation and the fundamentals of research in neuropsychology.
- Explore the development of the nervous system and its relationship to neurological disorders.
- Understand the structure and function of the nervous system at the cellular and molecular levels.

Module 5. Functional Neuroanatomy

- Understand the main functions of the brain lobes and their subdivisions.
- Analyze how lesions in different areas of the frontal lobe affect thinking and behavior
- Explore how lesions in the motor cortex influence control and execution of movements
- Understand brain asymmetry and its impact on cognitive and emotional functions

Module 6. Cognitive Functions

- Understand the neurobiological basis underlying attention.
- Explore the neurobiological bases underpinning language
- Investigate the neurobiological basis of sensory perception
- Understand the neurobiological basis of visuospatial perception

Module 7. Brain Injury

- Analyze the effects of early brain lesions on neuropsychological development.
- Explore disorders caused by vascular problems in the brain.
- Become familiar with epileptic disorders and their neuropsychological implications.
- Understand alterations in the level of consciousness and their neuropsychological consequences.

Module 8. Aphasias, Agraphias and Alexias

- Understand the characteristics and causes of Broca's aphasia.
- Analyze the characteristics and causes of Wernicke's aphasia.
- Explore the characteristics and causes of Conduction Aphasia.
- Understand the characteristics and causes of Global Aphasia
- Become familiar with the characteristics and causes of the different Aphasia, Agraphia and Alexia.

Module 9. Neurodegenerative Diseases

- Analyze how cognitive reserve affects aging and mental health.
- Explore different neurological disorders, such as Multiple Sclerosis and Amyotrophic Lateral Sclerosis.
- Know the main characteristics of movement disorders such as Parkinson's disease.
- Understand the aging process and its effects on cognition.

tech 12 | Objectives

Module 10. Neuroeducation

- Define the principles of Neuroeducation.
- Explain the main neuromyths.
- Explain strategies for early stimulation and interventions.
- Define the theory of attention.
- Explain emotion from a neurological point of view.
- Explain learning from a neurological point of view.
- Explain memory from a neurological point of view.

Module 11. Visual and Auditory Functionality for Reading, Language, Languages and Learning

- Learn about the characteristics and development of the organs of sight
- Detect, evaluate and intervene in the classroom with visually impaired students
- Acquire the ability to work for the improvement of visual perception
- Become familiar with vision and reading skill training programs
- Study the saccadic models
- Develop characteristics and development of the organs of the ear
- Learn about the risk factors
- Identify ways to detect, evaluate and intervene in the classroom with hearing impaired students
- Acquire the ability to work for the improvement of hearing
- Know the psychobiological aspects of hearing loss
- Develop the necessary skills to make curricular adaptations in this area
- Study all the implications of visual and auditory impairment in developing literacy

Module 12. Motricity, Laterality and Writing

- Delve into the relationship between learning and neurodevelopment in the educational field
- Study aspects related to gross and fine psychomotor skills
- Know the relationship between motor skills and the psyche and its developmental implications
- Study laterality in relation to the development of cognitive abilities
- Develop the different degrees of evolution in the evolutionary lateral stages
- Learn the different motor disorders from their impact on learning
- Unravel all aspects of the reading acquisition process
- Learn to intervene in possible difficulties related to learning in the classroom: dysgraphia, dyscalculia, dyslexia
- Develop intervention models for prevention, development and learning difficulties in the school environment
- Develop communication and relationship skills with fathers, mothers and families

Module 13. Intervention in High-Capacity Individuals

- Know the integrated diagnostic model and its phases
- Know the comorbidities that usually accompany the spectrum of high-capacity individuals
- Differentiate between manifestations or symptoms that could be related to high capacity and symptoms that could be related to the presence of disorders
- Organize the decision-making process based on initial diagnoses
- Propose specific lines of action for educational intervention
- Analyze the lines of intervention proposed at family and personal levels based on case studies assessing their impact

Objectives | 13 tech

Module 14. Multiple Intelligences, Creativity, Talent and High Abilities

- Learn all aspects related to the theory of multiple intelligences and their assessment
- Learn the neuropsychological basis of creativity and its development in the educational context
- Know the possibilities of working in the area of high abilities.

Module 15. Dyslexia, Dyscalculia and Hyperactivity

- Incorporate the necessary knowledge to detect and intervene in the classroom in cases of dyscalculia, dyslexia and ADHD
- Understand the incidence of comorbidity in this context.
- Learn about the possibilities of neurotechnology applied to dyslexia, ADHD and dyscalculia

Module 16. Neurolinguistic Processes, Difficulties and Intervention Programs

- Develop the neurobiological aspects involved in language development.
- Study the neuropsychological bases of language and the potential for its work and development
- Analyze the processes of language comprehension, sounds and reading comprehension.
- Analyze language and literacy disorders
- Learn how to assess, diagnose and correct language difficulties.

Module 17. Memory Processes, Skills and TIC

• Explore and gain in-depth knowledge of the characteristics and functioning of memory processes, in relation to the holistic development of the person, in the specific field of learning

Module 18. Research Methodology I

- Learn research methodology and its different approaches
- Develop a complete research method, from the choice of the topic, to the proposal and production
- Learn how to conduct quantitative research and analysis of results

Module 19. Research Methodology II

- Learn descriptive statistics
- Learn how to develop a hypothesis test and interpret it
- Study the use of correlational and group comparison statistics and be able to use them in research

Our goal is to help you achieve yours, through a very unique program of specialization that will become an unparalleled professional growth experience"

03 **Skills**

Once all the contents have been studied and the objectives of the Advanced Master's Degree in Clinical Neuropsychology and Neuroeducation have been achieved, the professional will have superior competence and performance in this area. A very complete approach, in a high-level Advanced Master's Degree, which makes the difference.

Skills | 15 tech

NEUROPS

NEUROPSV

NEUROPSYCHOLOGY

Achieving excellence in any profession requires effort and perseverance. But, above all, the support of professionals, who will give you the boost you need, with the necessary means and assistance. At TECH, we offer you everything you need"

tech 16 | Skills



General Skills

- Develop the profession with respect to other health professionals, acquiring skills to work as a team
- Recognize the need to maintain your professional skills and keep them up to date, with special emphasis on autonomous and continuous learning of new information
- Develop the capacity for critical analysis and research in the field of their profession
- Employ neuropsychology in the educational environment
- Conduct programs to improve school performance
- Apply the research methods of neuropsychology of education
- Construct new ways of attending to diversity in the classroom



Skills | 17 tech

Specific Skills

- Learn how the reptilian brain deals with basic, pattern and parameter intelligences
- Master the relationship between the limbic system and our emotional universe
- Have knowledge of the brain chemicals that affect our emotions
- Learn the neurological seat of our emotions
- Research intuition and its scientific and measurable side
- Learn about the unconscious mechanisms of emotional intelligence
- Determine from scientific knowledge that "emotion decides and reason justifies"
- Learn about the drivers of motivation in human beings
- Differentiate from the neurological reality the fact of thinking from the fact of reflecting
- Discover the evolutionary succession of our neocortex
- Have knowledge of the rational capacity to associate, represent in space and reflect
- Learn about the Alpha fibers and their function
- Learn about the Beta fibers and their function
- Learn about the Gamma fibers and their function
- Learn about the Delta fibers and their function
- Review and list sympathetic and preganglionic nerve fibers
- Learn how to differentiate mechano-receptors from other fibers
- Master the importance of sympathetic nociceptors in pain and sensitivity
- Learn the morphology and function of preganglionic fibers
- Discover the sympathetic and parasympathetic mechanisms

tech 18 | Skills

- Learn the functions and mechanisms of the spinal nerves
- Learn how to differentiate between efferent and afferent communication
- Learn the properties of the gray matter and its communication vehicle, white matter
- Learn the functions of the Varolio Bridge
- Learn how the medulla oblongata influences our global behavioral system
- Understand the description and function of the cerebellum
- Master the global role of the amygdalae, hippocampus, hypothalamus, cingulum, sensory thalamus, basal nuclei, periaqueductal gray region, pituitary gland and nucleus accumbens
- Learn about R. Carter's theory of brain evolution from 2002
- Manage the global role of the orbital frontal lobe
- Linking neuromotor transmission and sensory perception
- Gain knowledge of the hypothalamic axis and the endocrine system
- Understand the neurological mechanisms and chemistries that regulate temperature, blood pressure, food intake, and reproductive function
- Assimilate the latest knowledge on the relationship between the nervous system and the immune system
- Recognize the anatomy of the brain and its relationship with the development of different learning processes from the motor, sensory, emotional, etc. point of view
- Use knowledge of Neuropsychology in the development of diverse intervention programs in all areas of school development
- Apply the data extracted from the analysis of neurology in clinical diagnosis, supported by specific knowledge of developmental neuropsychology
- Apply different intervention methods in education based on data extracted from the analysis of brain functionality in emotions and learning
- Work with sensory difficulties in the school environment, from a neuropsychological approach based on a deep knowledge of visual and auditory functionality.





Skills | 19 tech

- Implement brain stimulation strategies in the educational environment through the development of motor skills and laterality
- Devise, develop and analyze comprehensive research in the area of neuropsychology in the educational setting
- Apply new strategies in cases of high abilities
- Be able to program taking into account multiple intelligences and the impulse of talent and creativity
- Develop efficient intervention programs for students with dyscalculia, dyslexia and hyperactivity
- Perform effective assessment, diagnosis and intervention of language difficulties

Our objective is very simple: to offer you quality education, with the best teaching system available today, so that you can achieve excellence in your profession"

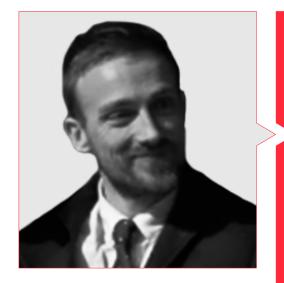
04 Course Management

Within the concept of total quality of our course, TECH is proud to offer you a teaching staff of the highest level, chosen for their proven experience in the educational field. Professionals from different areas and fields of expertise that make up a complete, multidisciplinary team. A unique opportunity to learn from the best.

Our professors bring their vast experience and their teaching skills to offer you a stimulating and creative specialized educational program"

tech 22 | Course Management

Management



Dr. Martínez Lorca, Alberto

- Area Specialist in Nuclear Medicine at the University Hospital La Paz
- Physician in the Department of Nuclear Medicine at the Ramón y Cajal University Hospital
- Area Specialist in Nuclear Medicine at the Rey Juan Carlos University Hospital
- Ph.D. in Medicine
- Expert Researcher in the Area of Cancer and Hormone Receptors
- Medical Education Manager
- Professional Master's Degree in Time-Limited Psychotherapy and Health Psychology
- VEC Coaching
- Director of the Neurological Studies Area of CEP. Madrid
- Specialist in Neurology of Dreams and their Disorders
- Outreach worker for the child population at Teddy Bear Hospital

Course Management | 23 tech



Ms. Sánchez Padrón, Nuria Ester

- General Health Psychologist
- Teacher of Educational Reinforcement at Radio ECCA
- Degree in Psychology from La Laguna University
- Professional Master's Degree in General Health Psychology from the University of La Rioja
- Specialist in Emergency Psychological Care of the Red Cross
- Specialist in Psychological Care in Penitentiary Institutions

tech 24 | Course Management

Coordinator



Dr. Aguado Romo, Roberto

- President of the European Institute of Time-Limited Psychotherapy
- Psychologist in private practice
- Researcher in Time Limited Psychotherapy
- Guidance team coordinator for many schools
- Author of several books on Psychology
- Communicator and expert in Psychology in the media.
- University courses and studies teacher.
- Professional Master's Degree in Clinical and Health Psychology
- Specialist in Clinical Psychology
- Selective Dissociation Targeting Specialist

Professors

Dr. Martínez Lorca, Manuela

- PhD in Psychology from the University of Castilla-La Mancha
- Health Psychologist
- Professor in the Department of Psychology at the UCLM.
- Professional Master's Degree in Time-Limited Psychotherapy and Health Psychology by the European Institute
- of Time-Limited Psychotherapies (I.E.P.T.L.).
- Specialist in Clinical Hypnosis and Relaxation

Ms. Roldan, Lucía

- Health Psychologist
- Cognitive-behavioral intervention specialist
- Professional Master's Degree in Time-Limited Psychotherapy and Health Psychology
- Postgraduate Diploma in energy therapy intervention

Course Management | 25 tech

Ms. González Agüero, Mónica

- Psychologist in charge of the Department of Child and Adolescent Psychology at Hospital Quirón Salud Marbella and Avatar Psicólogos
- Professional Master's Degree in Time-Limited Psychotherapy and Health Psychology from the European Institute
- of Time-Limited Psychotherapies (I.E.P.T.L.).
- University Specialist in Clinical Hypnosis with Selective Dissociation Focusing by the University of Almeria
- Collaborator in different Red Cross programs
- Professor in the Professional Master's Degree in Time-Limited Psychotherapy and Health Psychology at the European Institute of Psychotherapies
- Trainer of Avatar Psychologists in different programs of emotional management for educational centers and companies. Trainer at Human Resources Consulting Services (HRCS)

Dr. Kaisser Ramos, Carlos

- Otolaryngologist. Specialist in Rehabilitation and Physical Medicine
- Head of the Otolaryngology department at Segovia Hospital Complex
- Otorhinolaryngology Professor at the Autonomous University of Madrid
- Full member of the Royal Academy of Medicine of Salamanca
- Academic of the Royal Academy of Medicine
- Professional Master's Degree in Time-Limited Psychotherapy and Health Psychology
- European Specialist Physician in Psycotherapy
- Postgraduate Diploma in Psychosomatic Medicine
- Head of Studies and Director of Research in Psychopathic Disorders by the Institute
- of Time-Limited Psychotherapies (I.E.P.T.L.)
- Professional Master's Degree in Clinical and Health Psychology from the Spanish Society of Psychosomatic Medicine and Medical Psychology

Dr. Fernández Sánchez, Angel

- European specialist psychologist in Psychotherapy from the EFPA.
- Health Psychologist
- Professional Master's Degree in Clinical and Health Psychology
- Director of the Evaluation and Psychotherapy Center of Madrid
- Tutor in charge of the Psychodiagnosis and Psychological Intervention area of the CEP.
- Author of the T.E.N. technique. Head of studies on the Professional Master's Degree in Time-Limited Psychotherapy and Health Psychology
- Specialist in Clinical Hypnosis and Relaxation



Learning that draws on the real-world experience of practicing professionals. Learning is the best way to achieve quality in your profession"

05 Structure and Content

The contents of this specialization have been developed by the different professors of this course, with a clear purpose: to ensure that students acquire each and every one of the skills necessary to become true experts in this field. The content of this course will allow you to learn all aspects of the different disciplines involved in this area. A very complete and well-structured program that will lead the student to the highest standards of quality and success.

Through a very well compartmentalized development, you will be able to access the most advanced knowledge in Clinical Neuropsychology and Neuroeducation of the moment"

tech 28 | Structure and Content

Module 1. Basis of Neurosciences

- 1.1. The Nervous System and Neurons
 - 1.1.1. Introduction
 - 1.1.2. Developments and Latest Approaches
- 1.2. Basic Anatomy of Learning-Related Structures.
 - 1.2.1. Physiology of Learning
- 1.3. Psychological Processes Related to Learning
 - 1.3.1. Emotions and Learning
 - 1.3.2. Emotional Approaches
- 1.4. The Main Brain Structures Related to Motor Skills
 - 1.4.1. Brain and Motor Development
 - 1.4.2. Laterality and Development
- 1.5. The Plastic Brain and Neuroplasticity
 - 1.5.1. Definition of Plasticity
 - 1.5.2. Neuroplasticity and Education
- 1.6. Epigenetics.
 - 1.6.1. Definition and Origins
- 1.7. Effects of the Environment on Brain Development
 - 1.7.1. Current Theories
 - 1.7.2. The Influence of the Environment on Child Development
- 1.8. Changes in the Infant's Brain
 - 1.8.1. Brain Development in Infancy
 - 1.8.2. Features
- 1.9. Evolution of the Adolescent Brain
 - 1.9.1. Brain Development in Adolescence
 - 1.9.2. Features
- 1.10. The Adult Brain
 - 1.10.1. Characteristics of the Adult Brain
 - 1.10.2. The Adult Brain and Learning

Module 2. Developmental Neuropsychology

- 2.1. Neuroscience
- 2.2. The brain: Structure and Function
- 2.3. Neuroscience and Learning
- 2.4. Multiple intelligences
- 2.5. Neuroscience Education
- 2.6. Neurosciences in the Classroom
- 2.7. Playing and New Technologies
- 2.8. Body and Brain
- 2.9. Neuroscience for preventing School Failure
- 2.10. Reason and Emotion

Module 3. Principles of Neuroanatomy

- 3.1. Classification of Nerve Fibers (Erlanger and Gasser)
 - 3.1.1. Alpha
 - 3.1.2. Beta
 - 3.1.3. Gamma
 - 3.1.4. Delta
 - 3.1.5. Sympathetic
 - 3.1.6. Preganglionic
 - 3.1.7. Mechanoceptors
 - 3.1.8. Sympathetic Nociceptors
 - 3.1.9. Preganglionic
- 3.2. Vegetative Nervous System
- 3.3. Spinal Cord
- 3.4. Spinal Nerves
- 3.5. Afferent and Efferent Communication
- 3.6. Gray Matter
- 3.7. White Matter



Structure and Content | 29 tech

- 3.8. Brainstem
 - 3.8.1. Midbrain
 - 3.8.2. Varolio Bridge
 - 3.8.3. Medulla Oblongata
 - 3.8.4. Cerebellum
- 3.9. Limbic System
 - 3.9.1. Tonsils
 - 3.9.2. Hippocampus
 - 3.9.3. Hypothalamus
 - 3.9.4. Cingulum
 - 3.9.5. Sensory Thalamus
 - 3.9.6. Base Cores
 - 3.9.7. Periaqueductal Gray Region
 - 3.9.8. Pituitary
 - 3.9.9. Nucleus Accumbens
- 3.10. Cerebral Cortex (Theory of Cerebral Evolution, Carter 2002)
 - 3.10.1. Parietal Cortex
 - 3.10.2. Frontal Lobes (6m)
 - 3.10.3. Limbic System (12 m)
 - 3.10.4. Language Areas: 1st Wernicke, 2nd Broca. (18 m)
- 3.11. Frontal Orbital Lobe
- 3.12. Functional Relationships of the NS with Other Organs and Systems
- 3.13. Motorneurone Transmission
- 3.14. Sensoperception
- 3.15. Neuroendocrinology (Hypothalamus-Endocrine System Relationship)
 - 3.15.1. Temperature Regulation
 - 3.15.2. Blood Pressure Regulation
 - 3.15.3. Food Ingestion Regulation
 - 3.15.4. Reproductive Function Regulation
- 3.16. Neuroimmunology (Relationship between the Nervous System and Immune System)
- 3.17. Map Relating Emotion to Neuroanatomical Structures

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Module 4. Introduction to Neuropsychology

- 4.1. Introduction to Neuropsychology
 - 4.1.1. Basis and Origins of Neuropsychology
 - 4.1.2. First Approaches to the Discipline
- 4.2. First Approaches to Neuropsychology
 - 4.2.1. First Works Within Neuropsychology
 - 4.2.2. Most Relevant Authors and Works
- 4.3. Ontogeny and Phylogeny of the CNS
 - 4.3.1. Concept of Ontogeny and Phylogeny
 - 4.3.2. Ontogeny and Phylogeny Within the CNS
- 4.4. Cellular and Molecular Neurobiology
 - 4.4.1. Introduction to Neurobiology
 - 4.4.2. Cellular and Molecular Neurobiology
- 4.5. Neurobiology of Systems
 - 4.5.1. Concepts of Systems
 - 4.5.2. Structures and Development
- 4.6. Embryology of the Nervous System
 - 4.6.1. Principles of Embryology of the Nervous System
 - 4.6.2. Phases of CNS Embryology
- 4.7. Introduction to Structural Anatomy CNS
 - 4.7.1. Introduction to Structural Anatomy
 - 4.7.2. Structural Development
- 4.8. Introduction to Functional Anatomy
 - 4.8.1. What is Function Anatomy?
 - 4.8.2. Most Important Functions
- 4.9. Neuroimaging Techniques
 - 4.9.1. Concept of Neuroimaging
 - 4.9.2. Most Commonly Used Techniques
 - 4.9.3. Advantages and Disadvantages

Module 5. Functional Neuroanatomy

- 5.1. Frontal Lobes
 - 5.1.1. Introduction to the Frontal Lobe
 - 5.1.2. Main Features
 - 5.1.3. Bases of their Functioning
- 5.2. Neuropsychology of the Dorsolateral Prefrontal Cortex
 - 5.2.1. Introduction to the Dorsolateral Prefrontal Cortex
 - 5.2.2. Main Features
 - 5.2.3. Bases of their Functioning
- 5.3. Neuropsychology of the Orbitofrontal Cortex
 - 5.3.1. Introduction to the Orbitofrontal Cortex
 - 5.3.2. Main Features
 - 5.3.3. Bases of their Functioning
- 5.4. Neuropsychology of the Medial Prefrontal Cortex
 - 5.4.1. Introduction to the Dorsolateral Prefrontal Cortex
 - 5.4.2. Main Features
 - 5.4.3. Bases of their Functioning
- 5.5. Motor Cortex
 - 5.5.1. Introduction to the Motor Cortex
 - 5.5.2. Main Features
 - 5.5.3. Bases of their Functioning
- 5.6. Temporal Lobe
 - 5.6.1. Introduction to the Temporal Lobe Cortex
 - 5.6.2. Main Features
 - 5.6.3. Bases of their Functioning
- 5.7. Parietal Lobe
 - 5.7.1. Introduction to the Parietal Lobe Cortex
 - 5.7.2. Main Features
 - 5.7.3. Bases of their Functioning
- 5.8. Occipital Lobe
 - 5.8.1. Introduction to the Occipital Lobe Cortex
 - 5.8.2. Main Features
 - 5.8.3. Bases of their Functioning

Structure and Content | 31 tech

- 5.9. Cerebral Asymmetry
 - 5.9.1. Concept of Brain Asymmetry
 - 5.9.2. Characteristics and Functioning

Module 6. Cognitive Functions

- 6.1. Neurological Principles of Attention
 - 6.1.1. Introduction to the Concept of Attention
 - 6.1.2. Neurobiological Principles and Foundations of Attention
- 6.2. Neurobiological Principles of Memory
 - 6.2.1. Introduction to the Concept of Memory
 - 6.2.2. Neurobiological Principles and Foundations of Memory
- 6.3. Neurological Principles of Language
 - 6.3.1. Introduction to the Concept of Language
 - 6.3.2. Neurobiological Principles and Foundations of Language
- 6.4. Neurobiological Principles of Perception
 - 6.4.1. Introduction to the Concept of Perception
 - 6.4.2. Neurobiological Principles and Foundations of Perception
- 6.5. Visuospatial Neurobiological Principles
 - 6.5.1. Introduction to Visuospatial Functions
 - 6.5.2. Principles and Fundamentals of Visuospatial Functions
- 6.6. Neurobiological Principles of Executive Functions
 - 6.6.1. Introduction to Executive Functions
 - 6.6.2. Principles and Fundamentals of Executive Functions
- 6.7. Apraxias
 - 6.7.1. What are Praxis?
 - 6.7.2. Features and Types
- 6.8. Gnosis
 - 6.8.1. What are Praxis?
 - 6.8.2. Features and Types
- 6.9. Social Cognition
- 6.9.1. Introduction to Social Cognition
 - 6.9.2. Characteristics and Theoretical Foundations

Module 7. Brain Injury

- 7.1 Neuropsychological and Behavioral Disorders of Genetic Origin
 - 7.1.1. Introduction
 - 7.1.2. Genes, Chromosomes and Hereditary
 - 7.1.3. Genes and Behavior
- 7.2. Early Brain Injury Disorder
 - 7.2.1. Introduction
 - 7.2.2. The Brain in Early Childhood
 - 7.2.3. Pediatric Cerebral Palsy
 - 7.2.4. Psychosyndromes
 - 7.2.5. Learning Disorders
 - 7.2.6. Neurobiological Disorders that Affect Learning
- 7.3. Vascular Brain Disorders
 - 7.3.1. Introduction to Cerebrovascular Disorders
 - 7.3.2. Most Common Types
 - 7.3.3. Characteristics and Symptomology
- 7.4. Brain Tumors
 - 7.4.1. Introduction to Brain Tumors
 - 7.4.2. Most Common Types
 - 7.4.3. Characteristics and Symptomology
- 7.5. Cranioencephalic Traumas
 - 7.5.1. Introduction to Trauma
 - 7.5.2. Most Common Types
 - 7.5.3. Characteristics and Symptomology
- 7.6. Infections of the CNS
 - 7.6.1. Introduction the CNS Infections
 - 7.6.2. Most Common Types
 - 7.6.3. Characteristics and Symptomology
- 7.7. Epileptic Disorders
 - 7.7.1. Introduction to Epileptic Disorders
 - 7.7.2. Most Common Types
 - 7.7.3. Characteristics and Symptomology

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- 7.8. Alterations in the Level of Consciousness
 - 7.8.1. Introduction to Altered Levels of Consciousness
 - 7.8.2. Most Common Types
 - 7.8.3. Characteristics and Symptomology
- 7.9. Acquired Brain Injury
 - 7.9.1. Concept of Acquired Brain Injury
 - 7.9.2. Most Common Types
 - 7.9.3. Characteristics and Symptomology
- 7.10. Disorders Related to Pathological Ageing
 - 7.10.1. Introduction
 - 7.10.2. Psychological Disorders Related to Pathological Ageing

Module 8. Aphasias, Agraphias and Alexias

- 8.1. Broca's Aphasia
 - 8.1.1. Basis and Origin of Broca's Aphasia
 - 8.1.2. Characteristics and Symptomology
 - 8.1.3. Assessment and Diagnosis
- 8.2. Wernicke's Aphasia
 - 8.2.1. Basis and Origin of Wernicke's Aphasia
 - 8.2.2. Characteristics and Symptomology
 - 8.2.3. Assessment and Diagnosis
- 8.3. Conduction Aphasia
 - 8.3.1. Basis and Origin of Conduction Aphasia
 - 8.3.2. Characteristics and Symptomology
 - 8.3.3. Assessment and Diagnosis
- 8.4. Global Aphasia
 - 8.4.1. Basis and Origin of Global Aphasia
 - 8.4.2. Characteristics and Symptomology
 - 8.4.3. Assessment and Diagnosis
- 8.5. Sensory Transcortical Aphasia
 - 8.5.1. Basis and Origin of Broca's Aphasia
 - 8.5.2. Characteristics and Symptomology
 - 8.5.3. Assessment and Diagnosis

- 8.6. Motor Transcortical Aphasia
 - 8.6.1. Basis and Origin of Motor Transcortical Aphasia
 - 8.6.2. Characteristics and Symptomology
 - 8.6.3. Assessment and Diagnosis
- 8.7. Mixed Transcortical Aphasia
 - 8.7.1. Basis and Origin of Mixed Transcortical Aphasia
 - 8.7.2. Characteristics and Symptomology
 - 8.7.3. Assessment and Diagnosis
- 8.8. Anomic Aphasia
 - 8.8.1. Principles and Origin of Anomic Aphasia
 - 8.8.2. Characteristics and Symptomology
 - 8.8.3. Assessment and Diagnosis
- 8.9. Agraphias
 - 8.9.1. Principles and Origin of Agraphias
 - 8.9.2. Characteristics and Symptomology
 - 8.9.3. Assessment and Diagnosis
- 8.10. Alexias
 - 8.10.1. Principles and Origin of Alexias
 - 8.10.2. Characteristics and Symptomology
 - 8.10.3. Assessment and Diagnosis

Module 9. Neurodegenerative Diseases

9.1: Normal Aging

- 9.1.1. Basic Cognitive Processes in Normal Aging
- 9.1.2. Superior Cognitive Processes in Normal Aging
- 9.1.3. Attention and Memory in Elderly People with Normal Aging
- 9.2. Cognitive Reserve and its Importance in Aging
 - 9.2.1. Cognitive Reserve: Definition and Basic Concepts
 - 9.2.2. Functionality of Cognitive Reserve
 - 9.2.3. Influencing Variables in Cognitive Reserve
 - 9.2.4. Interventions Based on Improving Cognitive Reserve in the Elderly

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- 9.3. Multiple Sclerosis
 - 9.3.1. Concepts and Biological Foundations of Multiple Sclerosis
 - 9.3.2. Characteristics and Symptomology
 - 9.3.3. Patient Profile
 - 9.3.4. Assessment and Diagnosis
- 9.4. Amyotrophic Lateral Sclerosis
 - 9.4.1. Concepts and Biological Foundations of Amyotrophic Lateral Sclerosis (ALS)
 - 9.4.2. Characteristics and Symptomology
 - 9.4.3. Patient Profile
 - 9.4.4. Assessment and Diagnosis
- 9.5. Parkinson's Disease
 - 9.5.1. Concepts and Biological Foundations of Parkinson's Disease
 - 9.5.2. Characteristics and Symptomology
 - 9.5.3. Patient Profile
 - 9.5.4. Assessment and Diagnosis
- 9.6. Huntington's Disease
 - 9.6.1. Concepts and Biological Foundations of Huntington's Disease
 - 9.6.2. Characteristics and Symptomology
 - 9.6.3. Patient Profile
 - 9.6.4. Assessment and Diagnosis
- 9.7. Dementia of the Alzheimer Type
 - 9.7.1. Concepts and Biological Foundations of Dementia of the Alzheimer Type
 - 9.7.2. Characteristics and Symptomology
 - 9.7.3. Patient Profile
 - 9.7.4. Assessment and Diagnosis
- 9.8. Pick's Dementia
 - 9.8.1. Concepts and Biological Foundations of Pick's Dementia
 - 9.8.2. Characteristics and Symptomology
 - 9.8.3. Patient Profile
 - 9.8.4. Assessment and Diagnosis

- 9.9. Lewy Body Dementia
 - 9.9.1. Concepts and Biological Foundations of Lewy Body Dementia
 - 9.9.2. Characteristics and Symptomology
 - 9.9.3. Patient Profile
 - 9.9.4. Assessment and Diagnosis
- 9.10. Vascular Dementia
 - 9.10.1. Concepts and Biological Foundations of Vascular Dementia
 - 9.10.2. Characteristics and Symptomology
 - 9.10.3. Patient Profile
 - 9.10.4. Assessment and Diagnosis

Module 10. Neuroeducation

- 10.1. Introduction to Neuroeducation.
- 10.2. Main Neuromyths
- 10.3. Attention
- 10.4. Emotion
- 10.5. Motivation
- 10.6. The Learning Process
- 10.7. Memory
- 10.8. Stimulation and Early Interventions
- 10.9. Importance of Creativity in Neuroeducation
- 10.10. Methodologies that allow the Transformation of Education in Neuroeducation

Module 11. Visual and Auditory Functionality for Reading, Language,

Languages and Learning

- 11.1. Vision: Functioning and Neuropsychological Bases
 - 11.1.1. Introduction
 - 11.1.2. Development of the Visual System at Birth
 - 11.1.3. Risk Factors
 - 11.1.4. Development of Other Sensory Systems During Infancy
 - 11.1.5. Influence of Vision on the Visuomotor System and its Development
 - 11.1.6. Normal and Binocular Vision
 - 11.1.7. Anatomy of Human Eyes
 - 11.1.8. Eye Functions

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- 11.1.9. Other Functions
- 11.1.10. Visual Pathways to the Cerebral Cortex
- 11.1.11. Elements that Favor Visual Perception
- 11.1.12. Vision Diseases and Alterations
- 11.1.13. Most Common Eye Disorders or Diseases: Classroom Interventions
- 11.1.14. Computer Vision Syndrome (CVS)
- 11.1.15. Attitudinal Observation of the Student
- 11.1.16. Summary
- 11.1.17. Bibliographical References
- 11.2. Visual Perception, Assessment and Intervention Programs
 - 11.2.1. Introduction
 - 11.2.2. Human Development: Development of the Sensory Systems
 - 11.2.3. Sensory Perception
 - 11.2.4. Neurodevelopment
 - 11.2.5. Description of the Perceptual Process
 - 11.2.6. Color Perception
 - 11.2.7. Perception and Visual Skills
 - 11.2.8. Evaluation of Visual Perception
 - 11.2.9. Intervention for the Improvement of Visual Perception
 - 11.2.10. Summary
 - 11.2.11. Bibliographical References
- 11.3. Tracking Eye Movements
 - 11.3.1. Introduction
 - 11.3.2. Eye Movements
 - 11.3.3. Tracking Eye Movements
 - 11.3.4. Ocular Motility Recording and Assessment
 - 11.3.5. Ocular Motility-Related Disorders
 - 11.3.6. The Visual System and Reading
 - 11.3.7. Development of Skills in Learning to Read
 - 11.3.8. Improvement and Training Programs and Activities
 - 11.3.9. Summary
 - 11.3.10. Bibliographical References

- 11.4. Saccadic Movements and Their Implication in Reading
 - 11.4.1. Introduction
 - 11.4.2. Models of the Reading Process
 - 11.4.3. Saccadic Movements and Their Relation to Reading
 - 11.4.4. How Saccadic Movements are Assessed
 - 11.4.5. The Reading Process at the Visual Level
 - 11.4.6. Visual Memory in the Reading Process
 - 11.4.7. Investigations to Study the Relationship Between Visual Memory and Reading
 - 11.4.8. Reading Difficulties
 - 11.4.9. Specialized Teachers
 - 11.4.10. Social Educators
 - 11.4.11. Summary
 - 11.4.12. Bibliographical References
- 11.5. Visual Accommodation and its Relation to Posture in the Classroom
 - 11.5.1. Introduction
 - 11.5.2. Mechanisms that Allow for Accommodation or Focus
 - 11.5.3. How is Visual Accommodation Assessed?
 - 11.5.4. Body Posture in the Classroom
 - 11.5.5. Visual Accommodation Training Programs
 - 11.5.6. Aids for Visually Impaired Students
 - 11.5.7. Summary
 - 11.5.8. Bibliographical References
- 11.6. Structure and Function of the Ear
 - 11.6.1. Introduction
 - 11.6.2. The World of Sound
 - 11.6.3. Sound and its Propagation
 - 11.6.4. The Auditory Receptors
 - 11.6.5. Ear Structure
 - 11.6.6. Development of the Hearing System at Birth
 - 11.6.7. Development of Sensory Systems during Infancy
 - 11.6.8. Influence of the Ear on Balance Development
 - 11.6.9. Ear Diseases
 - 11.6.10. Summary
 - 11.6.11. Bibliographical References

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11.7. Auditory Perception

- 11.7.1. Introduction
- 11.7.2. Guidelines for Detecting Auditory Perception Problems
- 11.7.3. The Perceptive Process
- 11.7.4. Role of the Auditory Pathways in Perceptual Processes
- 11.7.5. Children with Impaired Auditory Perception
- 11.7.6. Evaluation Tests
- 11.7.7. Summary
- 11.7.8. Bibliographical References
- 11.8. Evaluation of Hearing and its Alterations
 - 11.8.1. Introduction
 - 11.8.2. Evaluation of the External Auditory Canal
 - 11.8.3. Otoscopy
 - 11.8.4. Air Audiometry
 - 11.8.5. Bone Conduction Hearing
 - 11.8.6. Curve of the Pain Threshold
 - 11.8.7. Tone Audiometry, Vocal Audiometry and Acoustic Audiometry
 - 11.8.8. Hearing Impairment: Degrees and Types of Hearing Loss
 - 11.8.9. Causes of Hearing Loss
 - 11.8.10. Psychobiological Aspects of Hearing Impairment
 - 11.8.11. Summary
 - 11.8.12. Bibliographical References
- 11.9. Hearing and Learning Development
 - 11.9.1. Introduction
 - 11.9.2. Development of the Human Ear
 - 11.9.3. Programs, Activities and Games for Auditory Development in Children
 - 11.9.4. Berard Method
 - 11.9.5. Tomatis Method
 - 11.9.6. Visual and Hearing Health
 - 11.9.7. Adaptations of Curricular Elements
 - 11.9.8. Summary
 - 11.9.10. Bibliographical References

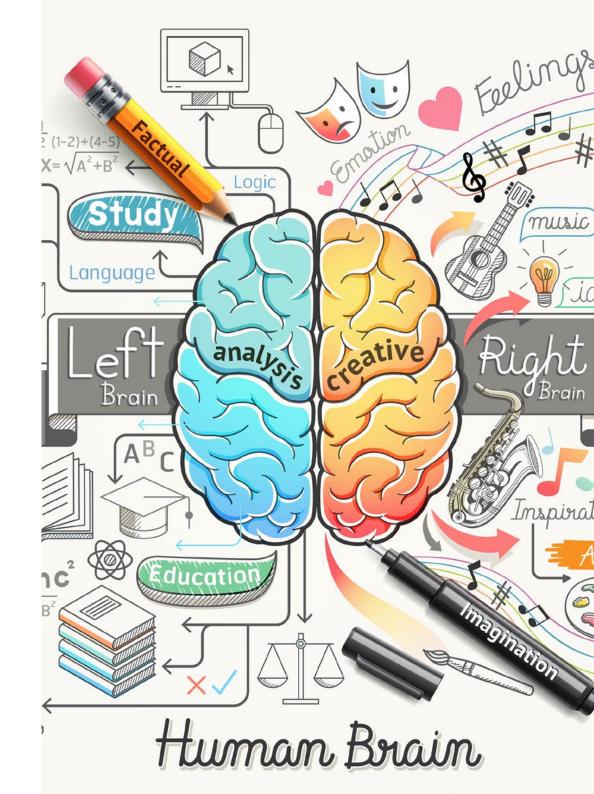
- 11.10. Vision and Hearing Processes Involved in Reading
 - 11.10.1. Introduction
 - 11.10.2. Tracking Eye Movements
 - 11.10.3. The Visual System and Reading
 - 11.10.4. Dyslexia
 - 11.10.5. Color-Based Therapies for Dyslexia
 - 11.10.6. Visual Impairment Aids
 - 11.10.7. Summary
 - 11.10.8. Bibliographical References
- 11.11. Relationship Between Vision and Hearing in Language
 - 11.11.1. Introduction
 - 11.11.2. Relationship Between Vision and Hearing
 - 11.11.3. Verbal-Auditory and Visual Information Processing
 - 11.11.4. Intervention Programs for Hearing Disorders
 - 11.11.5. Guidelines for Teachers
 - 11.11.6. Summary
 - 11.11.7. Bibliographical References

Module 12. Motricity, Laterality and Writing

- 12.1. Neurodevelopment and Learning
 - 12.1.1. Introduction
 - 12.1.2. Perceptual Development
 - 12.1.3. Neuropsychological Bases of Motor Development
 - 12.1.4. Development of Laterality
 - 12.1.5. Interhemispheric Communication through the Corpus Callosum
 - 12.1.6. Ambidextrousness
 - 12.1.7. Summary
 - 12.1.8. Bibliographical References
- 12.2. Psychomotor Development
 - 12.2.1. Introduction
 - 12.2.2. Gross Psychomotor Development

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- 12.2.3. General Dynamic Coordination: Basic Skills
- 12.2.4. Fine Motor Skills and Their Relationship with Writing
- 12.2.5. Assessment of Psychomotor Development
- 12.2.6. Summary
- 12.2.7. Bibliographical References
- 12.3. Neuropsychology of Motor Development
 - 12.3.1. Introduction
 - 12.3.2. Relationship between Motor and Psychism
 - 12.3.3. Disorders of Motor Development
 - 12.3.4. Disorders of the Acquisition of Coordination
 - 12.3.5. Vestibular System Disorders
 - 12.3.6. Handwriting
 - 12.3.7. Summary
 - 12.3.8. Bibliographical References
- 12.4. Introduction to Laterality Development
 - 12.4.1. Introduction
 - 12.4.2. Laterality Tests
 - 12.4.3. Observation Guidelines for Teachers
 - 12.4.4. Cross Laterality
 - 12.4.5. Types of Cross-Lateralization
 - 12.4.6. Relationship between Dyslexia and Laterality
 - 12.4.7. Relationship between Laterality and Attention, Memory and Hyperactivity Problems
 - 12.4.8. Summary
 - 12.4.9. Bibliographical References
- 12.5. Development of Laterality at Different Ages
 - 12.5.1. Introduction
 - 12.5.2. Definition of Laterality
 - 12.5.3. Types of Laterality
 - 12.5.4. The Corpus Callosum
 - 12.5.5. The Cerebral Hemispheres



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12.5.6. Development of the Prelateral, Contralateral, and Lateral Stages

12.5.7. Summary

- 12.5.8. Bibliographical References
- 12.6. Motor Disorders and Related Learning Difficulties
 - 12.6.1. Introduction
 - 12.6.2. Motor Disorders
 - 12.6.3. Learning Difficulties
 - 12.6.4. Summary
 - 12.6.5. Bibliographical References
- 12.7. Writing Acquisition and Process
 - 12.7.1. Introduction
 - 12.7.2. Learning to Read
 - 12.7.3. Comprehension Problems that Students May Develop
 - 12.7.4. Evolutionary Development of Writing
 - 12.7.5. History of Writing
 - 12.7.6. Neuropsychological Basis of Writing
 - 12.7.7. Teaching of Writing Expression
 - 12.7.8. Methods of Teaching Writing
 - 12.7.9. Writing Workshops
 - 12.7.10. Summary
 - 12.7.11. Bibliographical References
- 12.8. Dysgraphia
 - 12.8.1. Introduction
 - 12.8.2. Learning Styles
 - 12.8.3. Executive Functions Involved in Learning
 - 12.8.4. Definition of Dysgraphia and Types
 - 12.8.5. Common Indicators of Dysgraphia
 - 12.8.6. Classroom Aids for Students with Dysgraphia
 - 12.8.7. Individual Aids
 - 12.8.8. Summary
 - 12.8.9. Bibliographic References
- 12.9. The Contribution of Laterality to Literacy Development

12.9.1. Introduction 12.9.2. Importance of Laterality in the Learning Process 12.9.3. Laterality in the Reading and Writing Process 12.9.4. Laterality and Learning Difficulties 12.9.5. Summary 12.9.6. Bibliographical References 12.10. Role of the School Psychologist and Guidance Counselors for Prevention, Development and Learning Difficulties. 12.10.1. Introduction 12.10.2. The Guidance Department 12.10.3. Intervention Programs 12.10.4. Advances of Neuropsychology in Learning Difficulties 12.10.5. Training of the Teaching Team 12.10.6. Summary 12.10.7. Bibliographical References 12.11. Guidance to Parents 12.11.1. How to Inform parents? 12.11.2. Activities to Improve Academic Performance 12.11.3. Activities to Improve Lateral Development 12.11.4. Strategies for Problem Solving 12.11.5. Summary 12.11.6. Bibliographical References 12.12. Psychomotor Assessment and Intervention 12.12.1. Introduction 12.12.2 Psychomotor Development 12.12.3. Psychomotor Evaluation 12.12.4. Psychomotor Intervention 12.12.5. Summary 12.12.6. Bibliographical References

Module 13. Methodological Strategies and Learning Difficulties

- 13.1. Techniques to Improve Self-Esteem
 - 13.1.1. Classification
 - 13.1.2. Description

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- 13.2. Behavior Modification
 - 13.2.1. Identification
 - 13.2.2. Approach
- 13.3. Coping and Problem-Solving Strategies
 - 13.3.1. Classification
 - 13.3.2. Application
- 13.4. Social Skills
 - 13.4.1. Description of Shortcomings
 - 13.4.2. Intervention Models
- 13.5. Emotional Intelligence, Creativity and Emotional Education in the Classroom
 - 13.5.1. Emotional Intelligence and the Education of Emotions According to the Mayer and Salovey Model
 - 13.5.2. Other Emotional Intelligence Models and Emotional Transformation
 - 13.5.3. Socio-Emotional Skills and Creativity According to Level of Intelligence
 - 13.5.4. Concept of Emotional Quotient, Intelligence and Adaptation in Learning Difficulties
 - 13.5.5. Practical Classroom Resources to Prevent the Demotivation of Students with Learning Difficulties and the Management of Disruptive Behaviors from Emotions
 - 13.5.6. Standardized Tests to Assess Emotions
- 13.6. Learning Planning
 - 13.6.1. Application Resources
- 13.7. Study Techniques
 - 13.7.1. Description
 - 13.7.2. Applicable Developments
- 13.8. Learning Strategies
 - 13.8.1. Rehearsal Strategies
 - 13.8.2. Processing Strategies
 - 13.8.3. Organization Strategies
 - 13.8.4. Metacognitive Strategies
 - 13.8.5. Affective or Supportive Strategies
- 13.9. Motivation
 - 13.9.1. Contextualization
 - 13.9.2. Teaching Approaches
- 13.10. Family-Centered Intervention

13.10.1. Understanding Learning Difficulties 13.10.2. Acceptance of Reality 13.10.3. Decision-Making in the Family Environment 13.10.4. Behaviors within the Family 13.10.5. Projects with the Family 13.10.6. Emotional Intelligence. Managing Emotions 13.11. Inclusive Educational Intervention 13.11.1. Center's Educational Project, Special Attention to Learning Needs 13.11.2. Structural Adjustments 13.11.3. Organizational Changes 13.11.4. Plan of Attention to Diversity 13.11.5. Teacher Training Plan 13.11.6. Curricular Actions 13.11.7. Organizing the Early Childhood Curriculum 13.11.8. Organizing the Primary Education Curriculum 13.11.9. Organizing the Secondary Education Curriculum 13.12. Neurolinguistic Programming (NLP) Applied to Learning Disabilities 13.12.1. Justification and Objectives 13.12.2. Basics of NLP 13.12.2.1. Foundations of NLP 13.12.2.2. The Assumptions and Premises of NLP 13.12.2.3. Neurological Levels 13.12.3. The Rules of the Mind 13.12.4. Beliefs 13.12.5. Different Ways of Looking at Reality 13.12.6. States of Mind 13.12.7. Shaping the Language 13.12.8. Access to Unconscious Resources 13.13. Dynamic Learning in the Classroom 13.13.1. Dynamic Learning According to Robert Dilts 13.13.2. Activities According to Different Learning Styles

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- 13.13.3. Activities According to How Students Select Information
- 13.13.4. Strategies to Develop the Visual System in the Classroom
- 13.13.5. Strategies for Developing the Auditory System in the Classroom
- 13.13.6. Strategies to Develop the Kinesthetic System in the Classroom
- 13.13.7. Activities According to How Students Organize Information
- 13.13.8. Left Hemisphere and Right Hemisphere Enhancing Activities
 - 13.13.8.1. Strategies for Working With the Whole Brain in the Classroom
- 13.13.9. Techniques for Working on Beliefs
- 13.13.10.Neuro-Linguistic Programming Techniques to Improve Students' Academic Performance
 - 13.13.10.1. Techniques for Reflecting on Our Perception of Reality
 - 13.13.10.1.1. Techniques to Develop Flexible Thinking
 - 13.13.10.1.2. Techniques to Eliminate Blockages or Limitations
 - 13.13.10.1.3. Techniques to Clarify Objectives
 - 13.13.10.2. Annexes With Tests, Records, Techniques, Situation Analysis, Evaluations and Follow-Ups
- 13.14. Cooperative Learning in Attention to Diversity
 - 13.14.1. Definition and Bases of Cooperative Learning
 - 13.14.2. Structure of Cooperative Learning
 - 13.14.3. Developed Skills and Capabilities
 - 13.14.4. Purposes of Cooperative Learning From a Multicultural Approach
 - 13.14.5. Application in Each of the Educational Stages
 - 13.14.5.1. Early Childhood Education
 - 13.14.5.1.1. Teamwork and Group Cohesion in Early Childhood Education
 - 13.14.5.1.1.1. Cooperative Techniques in Early Childhood Education
 - 13.14.5.2. Primary Education

13.14.5.2.1. Didactics and Experiences in Primary Education Simple Structures

- 13.14.5.2.2. Primary Research and Projects
- 13.14.5.3. High School
 - 13.14.5.3.1. Importance of Roles in Secondary Education
 - 13.14.5.3.2. Evaluation of Cooperative Experiences in Secondary Schools
- 13.14.6. Design of Activities and Group Dynamics

- 13.14.7. The Role of the Teacher as Facilitator and Guide
 13.14.8. Assessment of Cooperative Learning
 13.15. New Technologies Applied
 13.15.1. Diverse Approaches and Perspectives
 13.15.1.1. Information Communication and Technology ICT
 13.15.1.2. Technology for Learning and Knowledge CAT
 13.15.1.3. Technologies of Empowerment and Participation TEP
 13.15.2.1. Digital Skills in Students
 13.15.2.2. Digital Skills in Teachers
 13.15.3.2. The Role of Families and the Regulation of Use
 13.15.3.1. Digital Educational Content
 13.15.3.2. Data Science
 13.15.3.3. Educational Platforms
 - 13.15.4. The Transformation of Education with New Teaching Methods

Module 14. Multiple Intelligences, Creativity, Talent and High-Capacity Individuals

- 14.1. Theory of Multiple Intelligences
 - 14.1.1. Introduction
 - 14.1.2. Background
 - 14.1.3. Conceptualization
 - 14.1.4. Validation
 - 14.1.5. Premises and Basic Principles of Theories
 - 14.1.6. Neuropsychological and Cognitive Science
 - 14.1.7. Classification of the Theories of Multiple Intelligences
 - 14.1.8. Summary
 - 14.1.9. Bibliographical References
- 14.2. Types of Multiple Intelligences
 - 14.2.1. Introduction
 - 14.2.2. Types of Intelligence
 - 14.2.3. Summary
 - 14.2.4. Bibliographical References

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14.3. Assessment of Multiple Intelligences

- 14.3.1. Introduction
- 14.3.2. Background
- 14.3.3. Types of Assessments
- 14.3.4. Aspects to Consider in the Assessment
- 14.3.5. Summary
- 14.3.6. Bibliographical References
- 14.4. Creativity
 - 14.4.1. Introduction
 - 14.4.2. Concepts and Theories of Creativity
 - 14.4.3. Approaches to the Study of Creativity
 - 14.4.4. Characteristics of Creative Thinking
 - 14.4.5. Types of Creativity
 - 14.4.6. Summary
 - 14.4.7. Bibliographical References
- 14.5. Neuropsychological Basis of Creativity
 - 14.5.1. Introduction
 - 14.5.2. Background
 - 14.5.3. Characteristics of Creative People
 - 14.5.4. Creative Products
 - 14.5.5. Neuropsychological Bases of Creativity
 - 14.5.6. Influence of the Environment and Context on Creativity
 - 14.5.7. Summary
 - 14.5.8. Bibliographical References
- 14.6. Creativity in the Educational Context
 - 14.6.1. Introduction
 - 14.6.2. Creativity in the Classroom
 - 14.6.3. Stages of the Creative Process
 - 14.6.4. How to Work on Creativity
 - 14.6.5. Connection Between Creativity and Thinking
 - 14.6.6. Modification in the Educational Context
 - 14.6.7. Summary
 - 14.6.8. Bibliographical References

- 14.7. Methodologies for Developing Creativity
 - 14.7.1. Introduction
 - 14.7.2. Programs for Developing Creativity
 - 14.7.3. Projects for Developing Creativity
 - 14.7.4. Promoting Creativity in the Family Context
 - 14.7.5. Summary
 - 14.7.6. Bibliographical References
- 14.8. Creativity Assessment and Guidance
 - 14.8.1. Introduction
 - 14.8.2. Considerations on Assessment
 - 14.8.3. Evaluation Tests
 - 14.8.4. Subjective Assessment Tests
 - 14.8.5. Guidance on Assessment
 - 14.8.6. Summary
 - 14.8.7. Bibliographical References
- 14.9. High Capacities and Talents
 - 14.9.1. Introduction
 - 14.9.2. Relationship Between Giftedness and High Capacities
 - 14.9.3. Connection Between Heredity and Environment
 - 14.9.4. Neuropsychological Foundation
 - 14.9.5. Models of Giftedness
 - 14.9.6. Summary
 - 14.9.7. Bibliographical References
- 14.10. Identification and Diagnosis of High Capacities
 - 14.10.1. Introduction
 - 14.10.2. Main Characteristics
 - 14.10.3. How to Identify Far High-Capacity Individuals
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- 19.1.3. Research in the Classroom
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06 **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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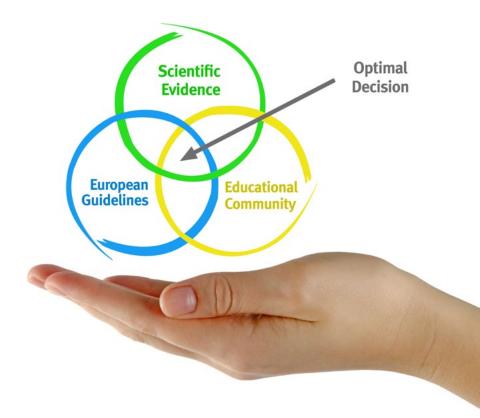
Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"

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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. 66

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.
- 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.



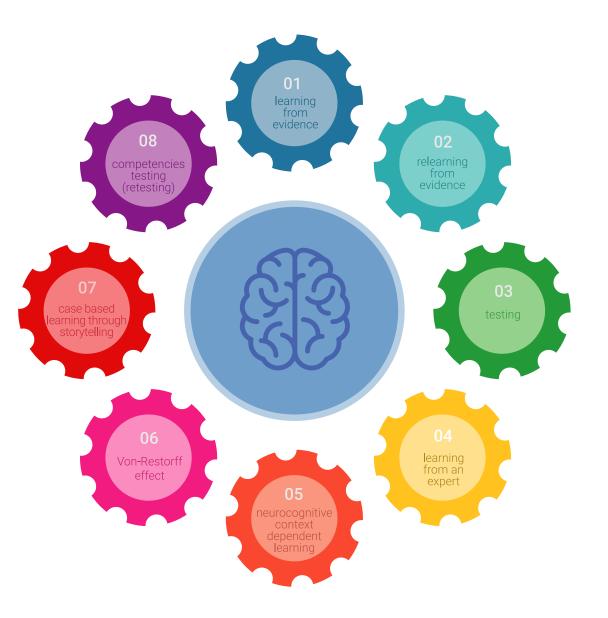
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Relearning Methodology

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.



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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.



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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.

20%

15%

3%

15%

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.

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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.

20%

7%

3%

17%



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.

07 **Certificate**

The Advanced Master's Degree in Clinical Neuropsychology and Neuroeducation guarantees, in addition to the most rigorous and up tp date education, access to an Advanced Master's Degree 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"

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This program will allow you to obtain a **Advanced Master's Degree diploma in Clinical Neuropsychology and Neuroeducation** endorsed by TECH Global University, the largest digital university in the world.

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 educational framework and harmonize the higher education systems of the member countries of this space. The project promotes common values, the implementation of joint 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 continuous education and professional updating that guarantees the acquisition of competencies in its area of knowledge, conferring a high curricular value to the student who completes the program.

Title: Advanced Master's Degree in Clinical Neuropsychology and Neuroeducation Modality: online Duration: 2 years Accreditation: 120 ECTS



۵d	vanced Master's Degree in Clinical	Neuron	sveho	loav a	and Neuroeducation		
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Gene	ral Structure of the Syllabus						
Year	Subject	ECTSIS	Туре	Year	Subject	ECTS;	Туре
1°	Basis of Neurosciences	6	CO	10	Visual and Auditory Functionality for Reading,	6	CO
1°	Developmental Neuropsychology	6	CO		Language, Languages and Learning		
10	Principles of Neuroanatomy	6	CO	10	Motricity, Laterality and Writing	6	CO
1°	Introduction to Neuropsychology	6	CO	1°	Methodological Strategies and Learning Difficulties	6	CO
10	Functional Neuroanatomy	6	CO	10	Multiple Intelligences, Creativity, Talent and High	6	CO
10	Neuroanatomy and Mental Disorders	6	CO		Abilities		
1°	Biochemistry and Neuroanatomy of the Most	6	CO	1°	Dyslexia, Dyscalculia and Hyperactivity	6 6	CO
	Well-Known Mental Disorders in the Practitioner's			10	Neurolinguistic Processes, Difficulties and		CO
	Outpatient Clinic of Psychology				Intervention Programs		
10	Neurological Behavioral Sites	6	CO	1°	Memory Processes, Skills and ICTs	6	CO
10	Neurological Foundations of Behavior	6	CO	10	Research Methodology I	6	CO
10	Neuroeducation	6	CO	1°	Research Methodology II	12	CO



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

tecn global university **Advanced Master's** Degree Clinical Neuropsychology and Neuroeducation » Modality: online » Duration: 2 years » Certificate: TECH Global University » Accreditation: 120 ECTS » Schedule: at your own pace

» Exams: online

Advanced Master's Degree Clinical Neuropsychology and Neuroeducation

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