



Advanced Master's Degree Clinical Neuropsychology and Neuroeducation

» Modality: online

» Duration: 2 years

» Certificate: TECH Technological University

» 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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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



A high level scientific educational program, supported by advanced technological development and the teaching experience of the best professionals"



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"

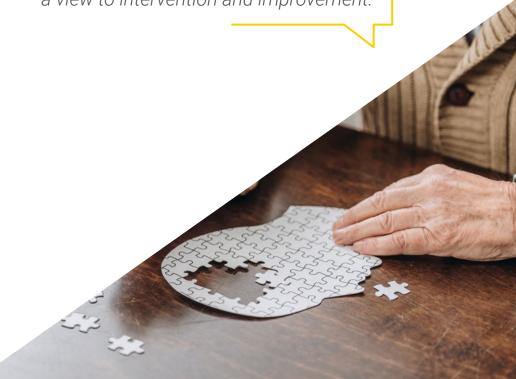
The program's teaching staff includes professionals from the field who contribute their work experience to this educational program, as well as renowned specialists from leading societies and prestigious universities.

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.





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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



Specific Objectives

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

- 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.

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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

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.

NEUROPSYCHOLOGY

NEUROPSY

NEUROPSY

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"

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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







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

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- 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.







- 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"







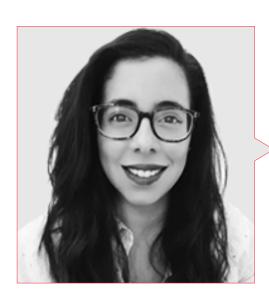
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Management



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



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

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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

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"





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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

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- 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

- 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
 - 3.6.3. 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

- 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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11.3.10. Bibliographical References

11.1.9. Other Functions 11.1.10. Visual Pathways to the Cerebral Cortex 11.1.11. Elements that Favor Visual Perception 11.1.1.2 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

- 11.4. 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

- 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
 - 12.2.3. General Dynamic Coordination: Basic Skills
 - 12.2.4. Fine Motor Skills and Their Relationship with Writing

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- 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
 - 12.5.6. Development of the Prelateral, Contralateral, and Lateral Stages
 - 12.5.7. Summary



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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	13.10.1. Understanding Learning Difficulties
	13.2.1. Identification	13.10.2. Acceptance of Reality
	13.2.2. Approach	13.10.3. Decision-Making in the Family Environment
13.3.	Coping and Problem-Solving Strategies	13.10.4. Behaviors within the Family
	13.3.1. Classification	13.10.5. Projects with the Family
	13.3.2. Application	13.10.6. Emotional Intelligence. Managing Emotions
13.4.	Social Skills	13.11. Inclusive Educational Intervention
	13.4.1. Description of Shortcomings	13.11.1. Center's Educational Project, Special Attention to Learning Needs
	13.4.2. Intervention Models	13.11.2. Structural Adjustments
13.5.	Emotional Intelligence, Creativity and Emotional Education in the Classroom	13.11.3. Organizational Changes
	13.5.1. Emotional Intelligence and the Education of Emotions According to the Mayer	13.11.4. Plan of Attention to Diversity
	and Salovey Model	13.11.5. Teacher Training Plan
	13.5.2. Other Emotional Intelligence Models and Emotional Transformation	13.11.6. Curricular Actions
	13.5.3. Socio-Emotional Skills and Creativity According to Level of Intelligence	13.11.7. Organizing the Early Childhood Curriculum
	13.5.4. Concept of Emotional Quotient, Intelligence and Adaptation in Learning Difficulties	13.11.8. Organizing the Primary Education Curriculum
	13.5.5. Practical Classroom Resources to Prevent the Demotivation of Students	13.11.9. Organizing the Secondary Education Curriculum
	with Learning Difficulties and the Management of Disruptive Behaviors from	13.12. Neurolinguistic Programming (NLP) Applied to Learning Disabilities
	Emotions	13.12.1. Justification and Objectives
	13.5.6. Standardized Tests to Assess Emotions	13.12.2. Basics of NLP
13.6.	Learning Planning	13.12.2.1. Foundations of NLP
	13.6.1. Application Resources	13.12.2.2. The Assumptions and Premises of NLP
13.7.	Study Techniques	13.12.2.3. Neurological Levels
	13.7.1. Description	13.12.3. The Rules of the Mind
	13.7.2. Applicable Developments	13.12.4. Beliefs
13.8.	Learning Strategies	13.12.5. Different Ways of Looking at Reality
	13.8.1. Rehearsal Strategies	13.12.6. States of Mind
	13.8.2. Processing Strategies	13.12.7. Shaping the Language
	13.8.3. Organization Strategies	13.12.8. Access to Unconscious Resources
	13.8.4. Metacognitive Strategies	13.13. Dynamic Learning in the Classroom
	13.8.5. Affective or Supportive Strategies	13.13.1. Dynamic Learning According to Robert Dilts
13.9.	Motivation	13.13.2. Activities According to Different Learning Styles
	13.9.1. Contextualization	13.13.3. Activities According to How Students Select Information
	13.9.2. Teaching Approaches	13.13.4. Strategies to Develop the Visual System in the Classroom
13 10	Family-Centered Intervention	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. Impact of New Technologies in Education
 - 13.15.2.1. Digital Skills in Students
 - 13.15.2.2. Digital Skills in Teachers
 - 13.15.2.3. The Role of Families and the Regulation of Use
 - 13.15.3. Educating With the Use of New Technologies
 - 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.	Assessi	ment 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.	Creativi	ty
	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.	Neurop	sychological 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.	Creativi	ty 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.	Creativit	ry 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.	Identific	ation and Diagnosis of High Capacities		
	14.10.1.	Introduction		
	14.10.2.	Main Characteristics		
	14.10.3.	How to Identify Far High-Capacity Individuals		
	14.10.4.	Role the Involved Agents		
	14.10.5.	Assessment Tests and Instruments		
	14.10.6.	Intervention Programs		
	14.10.7.	Summary		
	14.10.8.	Bibliographical References		

- 14.11. Problems and Difficulties
 - 14 11 1 Introduction
 - 14.11.2. Problems and Difficulties in the School Environment
 - 14.11.3. Myths and Beliefs
 - 14.11.4. Desynchronies
 - 14.11.5. Differential Diagnosis
 - 14.11.6. Differences Between Genders
 - 14.11.7. Educational Needs
 - 14.11.8. Summary
 - 14.11.9. Bibliographical References
- 14.12. Connection Between Multiple Intelligences, High Capacities, Talent and Creativity
 - 14.12.1. Introduction
 - 14.12.2. Connection Between Multiple Intelligences and Creativity
 - 14.12.3. Connection Between Multiple Intelligences, High Capacities and Talents
 - 14.12.4. Differences Between Talent and High Capacities
 - 14.12.5. Creativity, High Capacities and Talent
 - 14.12.6. Summary
 - 14.12.7. Bibliographical References
- 14.13. Guiding and Developing Multiple Intelligences
 - 14.13.1. Introduction
 - 14.13.2. Advising Teachers
 - 14.13.3. Multidimensional Student Development
 - 14.13.4. Curricular Enrichment
 - 14.13.5. Strategies at Different Educational Levels
 - 14.13.6. Summary
 - 14.13.7. Bibliographical References
- 14.14. Creativity for Problem-Solving
 - 14.14.1. Introduction
 - 14.14.2. Models of the Creative Process for Problem Solving
 - 14.14.3. Creative Project Development
 - 14.14.4. Summary
 - 14.14.5. Bibliographical References

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 - 14.15.2. Guidelines for Teachers
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 - 15.2.3. How to Assess
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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.

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



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:

- 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.



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Methodology | 55 tech

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tech 56 | Methodology

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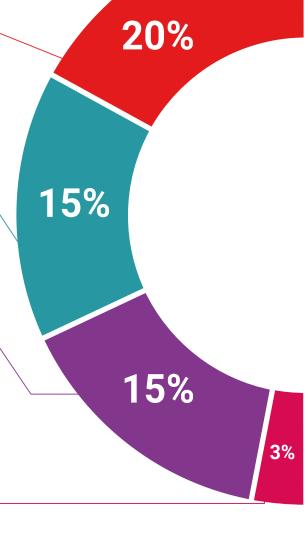
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Classes

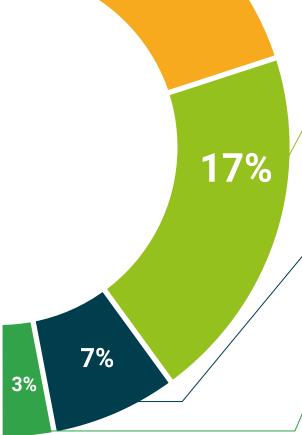
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20%





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TECH is a Private Institution of Higher Education recognized by the Ministry of Public Education as of June 28, 2018.

June 17, 2020

Tere Guevara Navarro
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The qualification must always be accompanied by the university degree issued by the compense authority to practice professionally in each county

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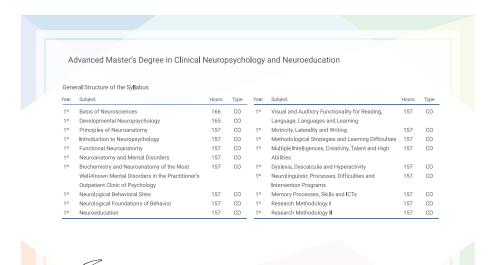
University

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Title: Advanced Master's Degree in Clinical Neuropsychology and Neuroeducation

Modality: online

Duration: 2 years



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



Advanced Master's Degree Clinical Neuropsychology and Neuroeducation

- » Modality: online
- » Duration: 2 years
- » Certificate: TECH Technological University
- » Schedule: at your own pace
- » Exams: online

