



Advanced Master's Degree Neuropsychology

» Modality: online

» Duration: 2 years

» Certificate: TECH Technological University

» Dedication: 16h/week

» Schedule: at your own pace

» Exams: online

 $We b site: {\color{blue}www.techtitute.com/pk/psychology/advanced-master-degree-neuropsychology} \\$

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The work of psychologists in the field of Neuropsychology is quite complex and requires a great amount of specialization. Understanding the brain, its particularities, and the link between it and human behavior is essential to offer more specific and effective treatments, but it also requires a high level of specialization to develop their skills.

This Advanced Master's Degree is divided into two main blocks: on one side, research in Neuropsychology and, on the other side, Clinical Neuropsychology. Therefore, this very complete specialization brings together concepts and high-level expertise on current approaches in the field of neuropsychological research, from the basic starting points to the application of conclusions and the materialization of new interventions, with specific topics on the chemical and anatomical structures involved in each of the processes within the field of health and mental disorders.

Throughout this specialization, the student will go through all the current approaches in the work of the neuropsychologist in the different challenges that his/her profession presents. 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 to develop their personal, social and labor competencies during the course of their training.

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

This Advanced Master's Degree is designed to give you 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 Neuropsychology** contains the most complete and up-to-date scientific program on the market. The most important features include:

- The latest technology in online teaching software
- A highly visual teaching system, supported by graphic and schematic contents that are easy to assimilate and understand
- Practical cases presented by practising experts
- State-of-the-art interactive video systems
- Teaching supported by remote education
- Continuous updating and retraining systems
- Autonomous learning: full compatibility with other occupations
- Practical exercises for self-evaluation and learning verification
- Support groups and educational synergies: Questions to the expert, 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"

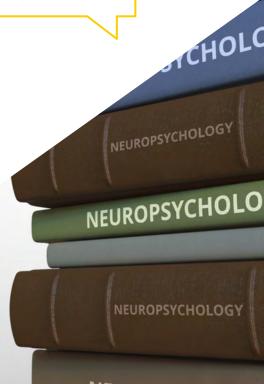
Our teaching staff is made up of working professionals. In this way, we ensure that we provide you with the up-to-date education we are aiming for. A multidisciplinary team of professionals prepared and experienced in different environments, who will develop theoretical knowledge efficiently, but, above all, will put at the service of specialization the practical knowledge derived from their own experience.

This command of the subject is complemented by the effectiveness of the methodological design of this Grand Master. Developed by a multidisciplinary team of e-learning experts, it integrates the latest advances in educational technology. In this way, you will be able to study with a range of easy-to-use and versatile multimedia tools that will give you the necessary skills you need for your specialization.

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

A deep and comprehensive dive into strategies and approaches in the field of Neuropsychology.

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







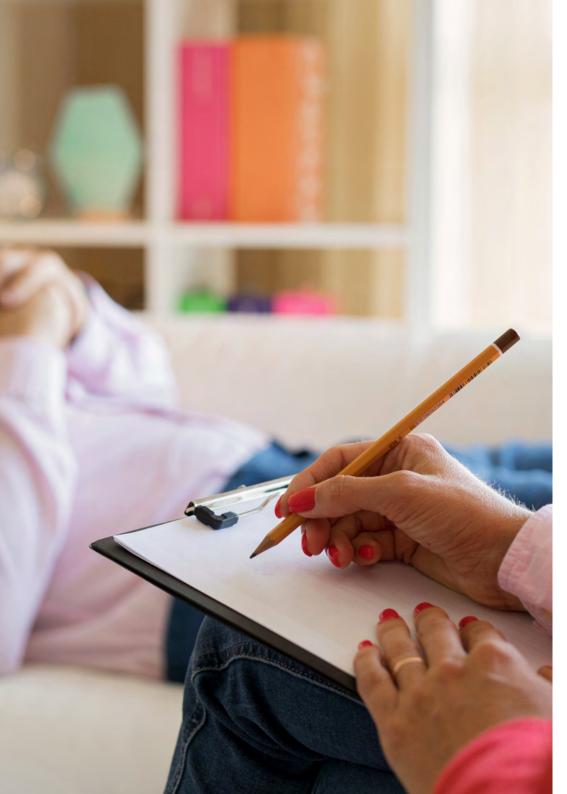
tech 10 | Objectives



General Objectives

- 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 to the methods and processes of Neuropsychology Research in the educational environment
- Increase the capacity for work and autonomous resolution of learning processes
- Study the attention to diversity from the neuropsychological approach
- Learn about the different ways to implement enrichment systems for learning methodologies in the classroom, especially aimed at diverse students
- Analyze and integrate the knowledge necessary to foster students' school and social development
- 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







Specific Objectives

- Study the anatomy of the brain and its relationship to learning
- Learn the brain basis of motor development
- Explore the quality of brain plasticity
- Analyze the various agents affecting child, adolescent and adult brain development
- Reflect on the meaning of neuroeducation
- Study the peculiarities and fundamental characteristics of the different areas of the brain associated with emotions and learning
- Learn the different forms and techniques of intervention in education
- Explore and gain in-depth knowledge of the characteristics and functioning of memory processes, in relation to the whole development of the person, in the specific area of learning
- Learn about the characteristics and development of the organs of sight
- Learn about the risk factors
- Learn ways to detect, assess and intervene in the classroom with students with vision problems
- Acquire the ability to work for the improvement of visual perception
- Become familiar with vision and reading skill training programs
- Study the saccadic models
- Learn about the characteristics and development of the organs of the ear
- Learn about the risk factors

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- Learn about the risk factors
- Learn ways to detect, evaluate and intervene in the classroom with students with hearing problems
- 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 problems on literacy learning
- Develop the neurobiological aspects involved in language development
- Study of the neuropsychological bases of language and the possibilities of language work and development
- Analysis and knowledge of the processes of language comprehension, sounds and reading comprehension
- Analysis of language and literacy disorders
- Learn how to assess, diagnose and correct language difficulties
- 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
- Learn ways to detect, evaluate and intervene in the classroom with students with hearing problems
- Acquire the ability to work for the improvement of hearing

- Know the psychobiological aspects of hearing loss
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- Analysis of language and literacy disorders
- Learn how to assess, diagnose and correct language difficulties
- 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
- Describe the biological principles of behavior
- Explain phylogeny from brain ontogeny
- Understand the neurological and biochemical framework in the overall view of human behavior
- Develop models for understanding mental health and mental illness based on brain activity
- Describe biochemical activity and the specific anatomy involved in each mental health disorder

- Explain the biochemical antagonists and agonists of brain globalization
- Acquire in-depth knowledge of the treatment of mental health illnesses
- Gain an understanding of the psychological models which improve biochemical and anatomical imbalance
- Implement multidisciplinary intervention in mental disorders
- Explain the regulators in human behavior
- Present imaging tools in neurological research
- Learn about the latest scientific discoveries.
- Describe the psychoneurological developments involved in health and disease
- List the different stages in the analysis of the stimulus
- Understand the biochemical and neurological drivers that lead to the establishment of a memory and its loss
- Develop psychic tools to change brain biochemistry and neuroanatomy
- Explain how basic emotions depend on biochemical and neuroanatomical activity
- Explain the involvement of respiration, body temperature and heart Cardiac in illness and health
- Understand the ascending reticular system with psychic procedures
- Explain how psychosocial elements translate into brain activity and thus into disease intervention

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



Get the most comprehensive update in Operating Room Nursing through the best didactic material, studying real clinical cases"



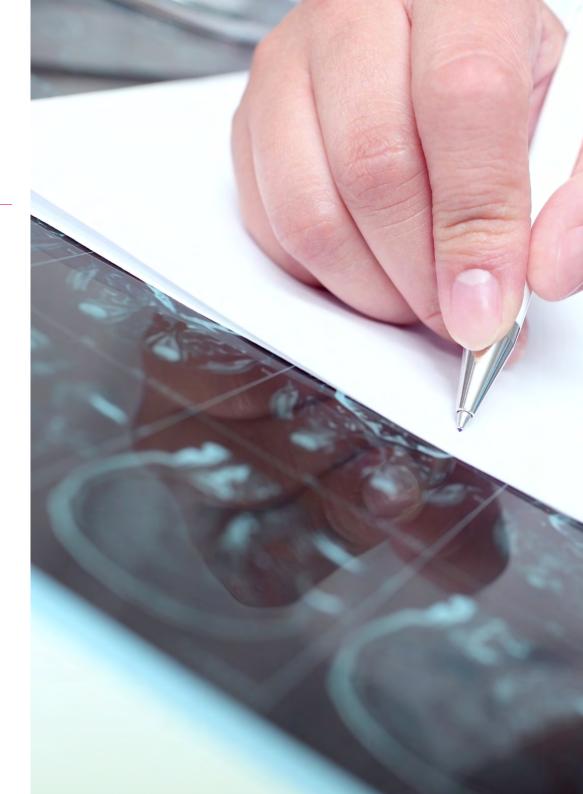


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General Skills

- Employ Neuropsychology in the educational environment
- Conduct programs to improve school performance
- Apply modes of Neuropsychology research
- Construct new ways of attending to diversity in the classroom
- Master and describe the neurological principles of behavior
- Understand and explain the anatomy and function of our central nervous system, autonomic nervous system, endocrine and immune systems
- Understand brain biochemistry and explain its involvement in behavior
- Master the biochemical behavior that occurs in mental disorders
- Manage the activation and inhibition of the different neuroanatomical structures involved in mental disorders
- Connect the neurobiological elements that occur in the most common disorders that reach the psychologist's outpatient clinic
- Master the different drugs used in psychiatry and neurology today
- Employ the neurological maps and rivers of chemistry that occur in the fundamental building blocks of our behavior





- Recognize the anatomy of the brain and its relationship with the development of the different learning processes from the motor, sensory, emotional, etc... point of view
- Employ the knowledge of neuropsychology in the development of diverse intervention programs in all areas of school development
- Put into practice the different forms of intervention in the educational area based on the data extracted from the analysis of brain functionality in the field of emotions and learning
- Work on strengthening memory development
- Have tools to work with altered memory states
- Perform effective assessment, diagnosis and intervention of language difficulties
- Identify motor difficulties in students that affect their performance
- Apply new strategies in cases of high abilities
- Planning taking into account multiple intelligences and encouraging talent and creativity
- Develop efficient intervention programs for students with dyscalculia, dyslexia and hyperactivity
- Devise, develop and analyze comprehensive research in the area of neuropsychology in the educational setting
- Master the philosophical discourses that led us to the current knowledge of neuroscience
- How to differentiate between the mind and the brain
- Master the different processes regulated by the central nervous system
- Gain the ability to differentiate sympathetic and parasympathetic activity and their involvement in behavior

- Describe the knowledge to connect the motor and vegetative nervous systems
- Identify the intervention of the medulla in our organism
- Know and understand the anatomy of the brainstem
- Differentiate the structures and their relationship in the brain
- Master and understand brain microstructure
- Master the anatomy and function of the neuron
- Have knowledge of embryological evolution and its relation to the behavior of the fetus and later the baby
- Understand the maturation process moment by moment
- Consider the maturation of the nervous system relevant in order to have the capacity to perform one or another function
- Understand and describe the rate of maturation and ability to perform cognitive functions
- Identify problems in the growth rate and their consequences since the disease
- Master the knowledge of vascularization and myelination rhythm in brain growth
- Discriminate the different types of intelligences that we can distinguish according to the area of the brain we are working on
- 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

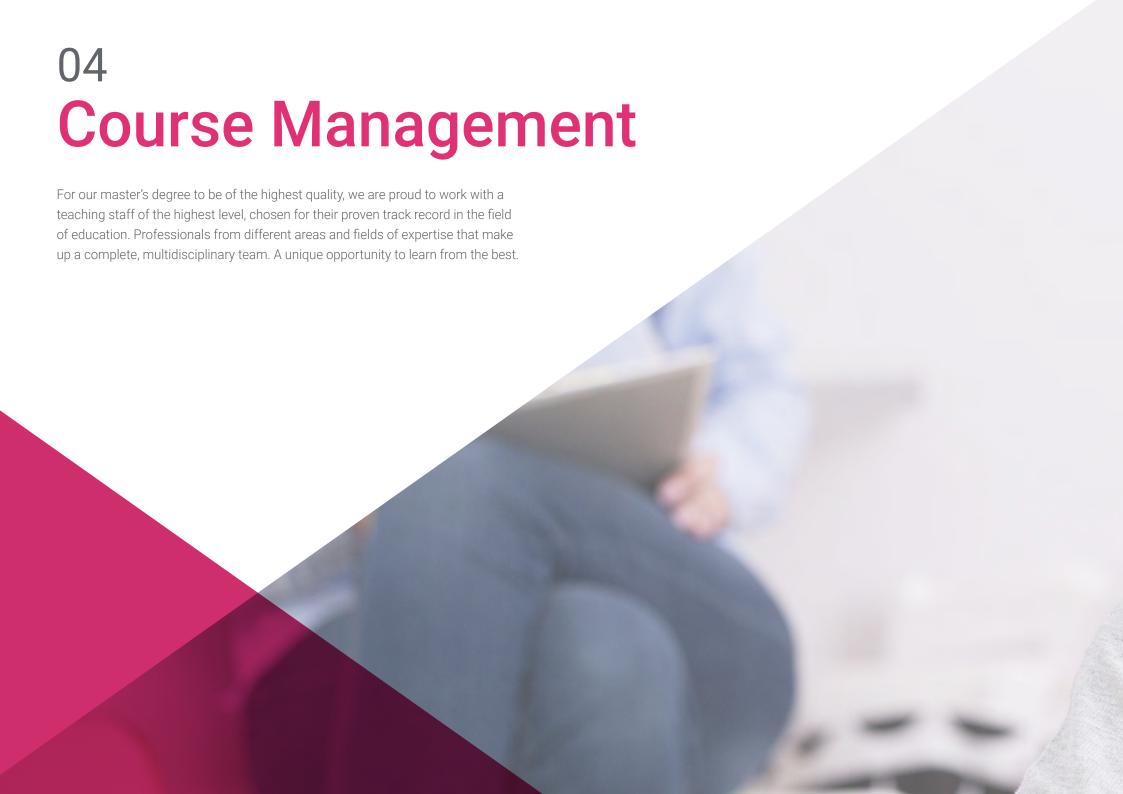
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- Learn the neurological seat of our emotions
- Research intuition and its scientific and measurable side
- Learn about the unconscious mechanisms of emotional intelligence
- Determine from scientific knowledge that "emotion decides and reason justifies"
- 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
- 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 Tonsils
- Master the global role of the Hippocampus
- Master the global role of the Hypothalamus
- Master the global role of the Cingulum
- Master the global role of the Sensory Thalamus
- Master the global role of the base cores
- Master the global role of the periaqueductal gray region
- Master the global role of the pituitary gland
- Master the global role of the nucleus accumbens
- Know the brain evolution theory of R. Carter
- 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
- Identify the elements that make it possible for NK cells to be effective
- Have knowledge of the relationship of lymphocytes and NK efficacy
- Be aware of current discoveries in understanding certain diseases and the errors of the immune system as the ultimate precursor to these disorders
- Announce and question a global and macro specialty that could be called psychoneuroimmunoendocrinology
- Learn the relationship between tonsil hyperactivity and panic attacks

- Know the relationship between caudate nucleus hyperactivity and obsessivecompulsive disorder
- Master the relationship between cingulate inhibition and hypochondriasis
- Identify gray region hyperactivity and literal petrification of the motor and sensory apparatus
- Describe the activity of the nucleus accumbens and pleasure, joy and wellness
- Understand how activating the ventral tegmental area reinforces what we do in order to do it more often
- Learn about the activity of the hypothalamus and the desire and need to eat whenever the food stimulus is present
- Learn how the pituitary glan is linked to stress
- Understand the chemistry and neuroanatomy that precedes the ten basic emotions
- Understand and master the network that leads to the nerve impulse
- Assimilate what we know today about neurotransmitters and their agonist and antagonist relationships
- Understand the performance of Gamma-Amino Butyric Acid
- Learn how acetylcholine, adrenaline, noradrenaline, serotonin and dopamine are connected
- Know how to differentiate the functions of DAe and DAi
- Assimilate the importance of endogenous enkephalins and endorphins in behavior
- Learn about the family of Catecholamines and Indolamines
- Learn the imbalances or disorders behind the imbalances in the different neurotransmitters
- Describe the sequelae of Naradrenaline imbalance
- Describe the sequelae of Serotonin imbalance

- Describe the sequelae of acetylcholine imbalance
- Describe the sequelae of Dopamine imbalance, both DAe and DAi
- Differentiate the different structures involved in mental disorders
- Learn the fundamental importance of the reticular system in the subsequent relays of our brain
- Discover the brain map through Brodmann's Areas
- Learn how to differentiate in neuroanatomy the five phases of human brain evolution
- Know that the first phase was the development of the brainstem
- Know that the Second phase was the development of Limbic System
- Know that the third phase was the development of the cortex
- Know that the fourth phase was hemispheric differentiation
- Know that the fifth phase was the evolution of the orbital frontal lobe
- Master the biochemistry and neuroanatomy of consciousness and memory disorders
- Describe the use of medicine called Benzodiazepines
- Master the sources of emotions, feelings, thoughts and the reflective act





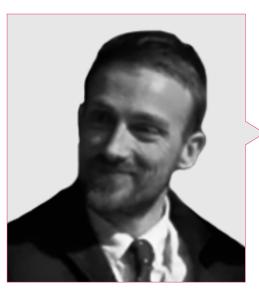
Management



Dr. Aguado Romo, Roberto

- Psychologist specializing in Clinical Psychology
- European Specialist in Psychotherapy by the EFPA, President of the European Institute for Time Limited Psychotherapy
- Author with patents in psychotherapy models and techniques
- Psychologist Specialist in Clinical Psychology, founder and director of the CEP of Madrid, Bilbao and Talavera de la Reina
- Director of the scientific journal Psinapsis. Master's Degree in Clinical and Health Psychology from the Spanish Society of Psychosomatic Medicine and Health Psychology
- Tutor of the Basic Psychology course at the UNED

Co-management



Don. Martínez Lorca, Alberto

- Specialist in Nuclear Medicine. Rey Juan Carlos University Hospital Madrid. Madrid. Spain BORRAR
- Specialist in Nuclear Medicine
- Specialist in nuclear medicine area at the Rey Juan Carlos-Quirón University Hospital
- International Residency in Turku PET Centre
- Turku University Hospital. Finland
- Medical Education Manage
- Master's Degree in Time-Limited Psychotherapy and Health Psychology
- Coaching V.E.C
- Director of Neurological Studies at CEP in Madrid



Ms. Sánchez Padrón, Nuria Ester

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

Professors

Dr. Fernandez, Angel

- European specialist psychologist in Psychotherapy from the EFPA
- Health Psychologist. Master's Degree in Clinical and Health Psychology
- Director of the Evaluation and Psychotherapy Center of Madrid

Dr. González, Mónica

- Psychologist in charge of the Department of Child and Adolescent Psychology in the Quirón Hospital and Avatar Psychologists in Marbella
- Master's degree in Time-Limited Psychotherapy and Health Psychology by the European Institute of Time-Limited Psychotherapy

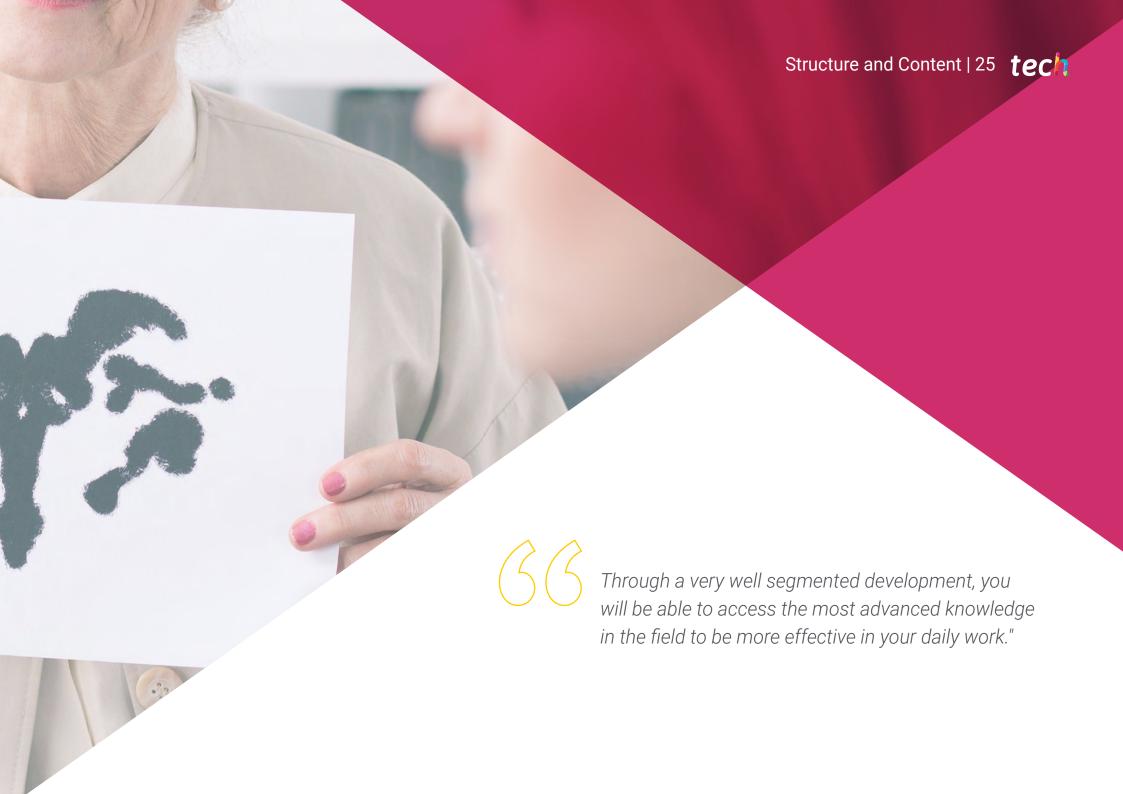
Dr. Martínez-Lorca, Manuela

- Doctorate in Psychology from the University of Castilla-La Mancha
- Health Psychologist
- Lecturer in the Department of Psychology at the UCLM
- Master in Time-Limited Psychotherapy and Health Psychology by the European Institute of Time-Limited Psychotherapies

Dr. Roldan, Lucía

- Health Psychologist
- Cognitive-behavioral intervention specialist
- Master in Time-Limited Psychotherapy and Health Psychology





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Module 1. Basis of Neurosciences

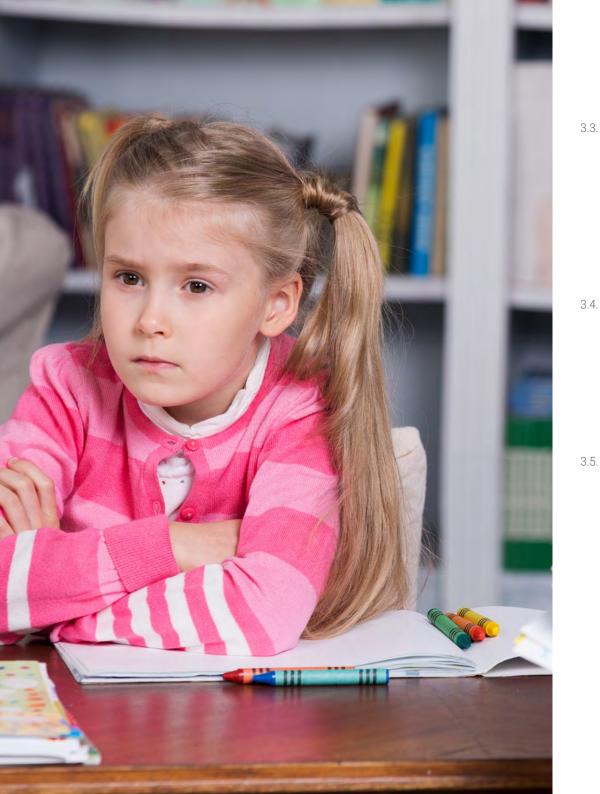
- 1.1. The Nervous System and Neurons
 - 1.1.1. Introduction
 - 1.1.2. Developments and Latest Approaches
- 1.2. Basic Anatomy of Learning-Related Structures
 - 1.2.1. Description
 - 1.2.2. Physiology of Learning
- 1.3. Psychological Processes Related to Learning
 - 1.3.1. Emotions and Learning
 - 1.3.2. 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. 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
 - 171 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. Neuroeducation

- 2.1. Introduction to Neuroeducation
- 2.2. Main Neuromyths
- 2.3. Attention
- 2.4. Emotion
- 2.5. Motivation
- 2.6. The Learning Process
- 2.7. Memory
- 2.8. Stimulation and Early Interventions
- 2.9. Importance of Creativity in Neuroeducation
- 2.10. Methodologies that Allow the Transformation of Education into Neuroeducation

Module 3. Memory Processes, Skills and ICTs

- 3.1. Conceptual Bases of Memory
 - 3.1.1. Introduction and Objectives
 - 3.1.2. Concept and Definition of Memory
 - 3.1.3. Basic Processes of Memory
 - 3.1.4. Initial Research on Memory
 - 3.1.5. Classification of Memory
 - 3.1.6. Memory During Development
 - 3.1.7. General Strategies to Stimulate Memory
 - 3.1.8. Bibliographical References
- 3.2. Sensory Memory
 - 3.2.1. Introduction and Objectives
 - 3.2.2. Concept and Definition
 - 3.2.3. Neurobiological Foundations of Sensory Memory
 - 3.2.4. Assessing Sensory Memory
 - 3.2.5. Intervention in Educational Contexts of Sensory Memory
 - 3.2.6. Family Activities for Students From Three to Five Years of Age
 - 3.2.7. Sensory Memory Intervention Case Study
 - 3.2.8. Bibliographical References



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3.3.	Short-	Ferm Memory
	3.3.1.	Introduction and Objectives
	3.3.2.	Concept and Definition of Short-Term Memory and Working Memor
	3.3.3.	Neurobiological Bases of Short-Term and Working Memory
	3.3.4.	Assessment of Short-Term and Working Memory
	3.3.5.	Intervention in Educational Contexts of Short-Term Memory
	3.3.6.	Family Activities for Students From Six to Eleven Years of Age
	3.3.7.	Working Memory Intervention Case Study
	3.3.8.	Bibliographic
3.4.	Long-T	erm Memory
	3.4.1.	Introduction and Objectives
	3.4.2.	Concept and Definition
	3.4.3.	Neurobiological Bases of Long-Term Memory
	3.4.4.	Assessment of Long-Term Memory
	3.4.5.	Intervention in Educational Contexts of Long-Term Memory
	3.4.6.	Family Activities for Students From Twelve to Eighteen Years of Age
	3.4.7.	Long-Term Memory Intervention Case Study
3.5.	Memoi	ry Disorders
	3.5.1.	Introduction and Objectives
	3.5.2.	Memory and Emotion
	3.5.3.	Forgetfulness Theories of Forgetfulness
	3.5.4.	Memory Distortions
	3.5.5.	Memory Alterations: Amnesias
	3.5.6.	Childhood Amnesia
	3.5.7.	Other Types of Memory Alteration
	3.5.8.	Programs to Improve Memory

Technological Programs to Improve Memory

3.5.10. Bibliographical References

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3.6.	Thinking Skills					
	3.6.1.	Introduction and Objectives				
	3.6.2.	Developing Thinking from Childhood to the Adult Age				
	3.6.1.	Basic Thought Processes				
	3.6.1.	Thinking Skills				
	3.6.1.	Critical Thinking				
	3.6.1.	Characteristics of Digital Natives				
	3.6.1.	Bibliographical References				
3.7.	Neurobiology of Thinking					
	3.7.1.	Introduction and Objectives				
	3.7.2.	Neurobiological Foundations of Thinking				
	3.7.3.	Cognitive distortions				
	3.7.4.	Neuropsychological Assessment Instruments				
	3.7.5.	Bibliographical References				
3.8.	Cognitiv	Cognitive Intervention				
	3.8.1.	Introduction and Objectives				
	3.8.2.	Learning Strategies				
	3.8.3.	Cognitive Stimulation Techniques in Educational Contexts				
	3.8.4.	Methods for Studying at Home				
	3.8.5.	Cognitive Stimulation Activities in the Family Environment				
	3.8.6.	Learning Strategy Intervention Case Study				
	3.8.7.	Bibliographical References				
3.9.	Cognitiv	ve Thought Theories				
	3.9.1.	Introduction and Objectives				
	3.9.2.	Significant Learning Theory				
	3.9.3.	Information Processing Theory				
	3.9.4.	Genetic Theory: Constructivism				
	3.9.5.	Sociocultural Theory: Socioconstructivism				
	3.9.6.	Theory of Connectivism				
	3.9.7.	Metacognition: to learn how to think				
	3.9.8.	Programs for the Acquisition of Thinking Skills				
	3.9.9.	Technology Programs for the Improvement of Thinking Skills				
	3.9.10.	Thinking Skill Intervention Case Study				
	3.9.11.	Bibliographical References				

Module 4. Visual and Auditory Functionality for Reading, Language, Languages and Learning

- 4.1. Vision: Functioning and Neuropsychological Bases
 - 4.1.1 Introduction
 - 4.1.2. Development of the Visual System at Birth
 - 4.1.3. Risk Factors
 - 4.1.4. Development of Other Sensory Systems During Infancy
 - 4.1.5. Influence of Vision on the Visuomotor System and its Development
 - 4.1.6. Normal and Binocular Vision
 - 4.1.7. Anatomy of Human Eyes
 - 4.1.8. Eye Functions
 - 4.1.9. Other Functions
 - 4.1.10. Visual Pathways to the Cerebral Cortex
 - 4.1.11. Elements that Favor Visual Perception
 - 4.1.12 Vision Diseases and Alterations
 - 4.1.13 Most Common Eye Disorders or Diseases: Classroom Interventions
 - 4.1.14 Computer Vision Syndrome (CVS)
 - 4.1.15 Attitudinal Observation of the Student
 - 4.1.16 Summary
 - 4.1.17 Bibliographical References
- 4.2. Visual Perception, Assessment and Intervention Programs
 - 4.2.1. Introduction
 - 4.2.2. Human Development: Development of the Sensory Systems
 - 4.2.3. Sensory Perception
 - 4.2.4. Neurodevelopment
 - 4.2.5. Description of the Perceptual Process
 - 4.2.6. Color Perception
 - 4.2.7. Perception and Visual Skills
 - 4.2.8. Evaluation of Visual Perception
 - 4.2.9. Intervention for the Improvement of Visual Perception
 - 4.2.10. Summary
 - 4.2.11. Bibliographical References

- Tracking Eye Movements 4.3.1. Introduction 4.3.2. Eye Movements 4.3.3. Tracking Eye Movements 4.3.4. Ocular Motility Recording and Assessment 4.3.5. Ocular Motility-Related Disorders 4.3.6. The Visual System and Reading 4.3.7. Development of Skills in Learning to Read 4.3.8. Improvement and Training Programs and Activities 4.3.9. Summary 4.3.10. Bibliographical References Saccadic Movements and Their Implication in Reading 4.4.1. Introduction 4.4.2. Models of the Reading Process 4.4.3. Saccadic Movements and Their Relation to Reading 4.4.4. How Saccadic Movements are Assessed 4.4.5. The Reading Process at the Visual Level 4.4.6. Visual Memory in the Reading Process 4.4.7. Investigations to Study the Relationship Between Visual Memory and Reading 4.4.8. Reading Difficulties Specialized Teachers 4.4.10 Social Educators 4.4.11. Summary 4.4.12. Bibliographical References Visual Accommodation and its Relation to Posture in the Classroom 4.5.1. Introduction 4.5.2. Mechanisms that Allow for Accommodation or Focus 4.5.3. How is Visual Accommodation Assessed? 4.5.4. Body Posture in the Classroom 4.5.5. Visual Accommodation Training Programs 4.5.6. Aids for Visually Impaired Students Summary 4.5.7. Bibliographical References 4.5.8.
- Structure and Function of the Ear 461 Introduction 4.6.2. The World of Sound 463 Sound and its Propagation 4.6.4. The Auditory Receptors 4.6.5. Ear Structure Development of the Hearing System at Birth Development of Sensory Systems during Infancy Influence of the Ear on Balance Development 4.6.8. Ear Diseases 4.6.9. 4.6.10. Summary 4.6.11. Bibliographical References **Auditory Perception** 4.7.1. Introduction Guidelines for Detecting Auditory Perception Problems 4.7.3. The Perceptive Process Role of the Auditory Pathways in Perceptual Processes Children with Impaired Auditory Perception 4.7.6. **Evaluation Tests** 4.7.7. Summary Bibliographical References Evaluation of Hearing and its Alterations 4.8.1. Introduction 4.8.2. Evaluation of the External Auditory Canal 4.8.3. Otoscopy Air Audiometry 4.8.4. Bone Conduction Hearing 4.8.5. Curve of the Pain Threshold 4.8.6. Tone Audiometry, Vocal Audiometry and Acoustic Audiometry 4.8.8. Hearing Impairment: Degrees and Types of Hearing Loss Causes of Hearing Loss 489 4.8.10. Psychobiological Aspects of Hearing Impairment 4.8.10. Summary 4.8.11. Bibliographical References

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4.11.7. Bibliographical References

4.9.	Hearing	aring and Learning Development		
	4.9.1.	Introduction		
	4.9.2.	Development of the Human Ear		
	4.9.3.	Programs, Activities and Games for Auditory Development in Children		
	4.9.4.	Berard Method		
	4.9.5.	Tomatis Method		
	4.9.6.	Visual and Hearing Health		
	4.9.7.	Adaptations of Curricular Elements		
	4.9.8.	Summary		
	4.9.10.1	Bibliographical References		
4.10.	Vision a	nd Hearing Processes Involved in Reading		
	4.10.1.	Introduction		
	4.10.2.	Tracking Eye Movements		
	4.10.3.	The Visual System and Reading		
	4.10.4.	Dyslexia		
	4.10.5.	Color-Based Therapies for Dyslexia		
	4.10.6.	Visual Impairment Aids		
	4.10.7.	Summary		
	4.10.8.	Bibliographical References		
4.11.	1. Relationship Between Vision and Hearing in Language			
	4.11.1.	Introduction		
	4.11.2.	Relationship Between Vision and Hearing		
	4.11.3.	Verbal-Auditory and Visual Information Processing		
	4.11.4.	Intervention Programs for Hearing Disorders		
	4.11.5.	Guidelines for Teachers		
	4.11.6.	Summary		

Module 5. Neurolinguistic Processes, Difficulties and Intervention Programs

- 5.1. Neurobiological Basis Involved in Language
 - 5.1.1. Introduction
 - 5.1.2. Language Definitions
 - 5.1.3. Historical Background BORRAR
 - 5.1.4. Summary
 - 5.1.5. Bibliographical References
- 5.2. Language Development
 - 5.2.1. Introduction
 - 5.2.2. Appearance of Language
 - 5.2.3. Acquisition of Language
 - 5.2.4. Summary
 - 5.2.5. Bibliographical References
- 5.3. Neuropsychological Approaches to Language
 - 5.3.1. Introduction
 - 5.3.2. Brain Processes of Language
 - 5.3.3. Brain Areas Involved
 - 5.3.4. Neurolinguistic processes
 - 5.3.5. Brain Centers Involved in Comprehension
 - 5.3.6. Summary
 - 5.3.7. Bibliographical References
- 5.4. Neuropsychology of Language Comprehension
 - 5.4.1. Introduction
 - 5.4.2. Brain Areas Involved in Comprehension
 - 5.4.3. Sounds
 - 5.4.4. Syntactic Structures for Linguistic Comprehension
 - 5.4.5. Semantic Processes and Meaningful Learning
 - 5.4.6. Reading Comprehension
 - 5.4.7. Summary
 - 5.4.8. Bibliographical References

5.5.	Comm	unication Through Language			
	5.5.1.	Introduction			
	5.5.2.	Language as a Tool for Communication			
	5.5.3.	Evolution of Language			
	5.5.4.	Social Communication			
	5.5.5.	Summary			
	5.5.6.	Bibliographical References			
5.6.	Langua	Language Disorders			
	5.6.1.	Introduction			
	5.6.2.	Speech and Language Disorders			
	5.6.3.	Professionals Involved in the Treatment			
	5.6.4.	Classroom Implications			
	5.6.5.	Summary			
	5.6.6.	Bibliographical References			
5.7.	Aphasi	a			
	5.7.1.	Introduction			
	5.7.2.	Types of Aphasia			
	5.7.3.	Diagnosis			
	5.7.4.	Assessment			
	5.7.5.	Summary			
	5.7.6.	Bibliographical References			
5.8.	Langua	Language Stimulation			
	5.8.1.	Introduction			
	5.8.2.	Importance of Language Stimulation			
	5.8.3.	Phonetic-Phonological Stimulation			
	5.8.4.	Lexical-Semantic Stimulation			
	5.8.5.	Morphosyntactic Stimulation			
	5.8.6.	Pragmatic Stimulation			
	5.8.7.	Summary			
	5.8.8.	Bibliographical References			

	F O 1	
		Introduction
		Delayed Reading
	5.9.3.	Dyslexia
	5.9.4.	Dysorthographia
	5.9.5.	Dysgraphia
	5.9.6.	Dyslalia
	5.9.7.	Treatment of Reading and Writing Disorders
	5.9.8.	Summary
	5.9.9.	Bibliographical References
5.10.	Evaluati	ion and Diagnosis of Language Difficulties
	5.10.1.	Introduction
	5.10.2.	Language Evaluation
	5.10.3.	Language Assessment Procedures
	5.10.4.	Psychological Tests for Assessing Language
	5.10.5.	Summary
	5.10.6.	Bibliographical References
5.11.	Interver	ntion in Language Disorders
	5.11.1.	Introduction
	5.11.2.	Implementation of Improvement Programs
	5.11.3.	Improvement Programs
	5.11.4.	Improvement Programs Using New Technologies
	5.11.5.	Summary
	5.11.6.	Bibliographical References
5.12.	Inciden	ce of Language Difficulties on Academic Performance
	5.12.1.	Introduction
	5.12.2.	Linguistic Processes
	5.12.3.	Incidence of Language Disorders
	5.12.4.	Relationship Between Hearing and Language
	5.12.5.	Summary
	5.12.6.	Bibliographical References

5.9. Reading and Writing Disorders

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5.13. Guidance for Parents and Teachers

	5.13.1.	Introduction
	5.13.2.	Language Stimulation
	5.13.3.	Reading Stimulation
	5.13.4.	Summary
	5.13.5.	Bibliographical References
Mod	ule 6. N	Multiple Intelligences, Creativity, Talent and High Abilities
6.1.	Theory	of Multiple Intelligences
	6.1.1.	Introduction
	6.1.2.	Background
	6.1.3.	Conceptualization
	6.1.4.	Validation
	6.1.5.	Premises and Basic Principles of Theories
	6.1.6.	Neuropsychological and Cognitive Science
	6.1.7.	Classification of the Theories of Multiple Intelligences
	6.1.8.	Summary
	6.1.9.	Bibliographical References
6.2.	Types o	of Multiple Intelligences
	6.2.1.	Introduction
	6.2.2.	Types of Intelligence
	6.2.3.	Summary
	6.2.4.	Bibliographical References
6.3.	Assessr	ment of Multiple Intelligences
	6.3.1.	Introduction
	6.3.2.	Background
	6.3.3.	Types of Assessments

6.7.4. Aspects to Consider in the Assessment

6.3.6. Bibliographical References

6.3.5. Summary

Creativ	ity
6.4.1.	Introduction
6.4.2.	Concepts and Theories of Creativity
6.4.3.	Approaches to the Study of Creativity
6.4.4.	Characteristics of Creative Thinking
6.4.5.	Types of Creativity
6.4.6.	Summary
6.4.7.	Bibliographical References
Neurop	osychological Basis of Creativity
6.5.1.	Introduction
6.5.2.	Background
6.5.3.	Characteristics of Creative People
6.5.4.	Creative Products
6.5.5.	Neuropsychological Bases of Creativity
6.5.6.	Influence of the Environment and Context on Creativity
6.5.7.	Summary
6.5.8.	Bibliographical References
Creativ	ity in the Educational Context
6.6.1.	Introduction
6.6.2.	Creativity in the Classroom
6.6.3.	Stages of the Creative Process
6.6.4.	How to Work on Creativity
6.6.5.	Connection Between Creativity and Thinking
6.6.6.	Modification in the Educational Context
6.6.7.	Summary
6.6.8.	Bibliographical References

6.4.

6.5.

6.6.

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6.7.	Method	ologies for Developing Creativity			
	6.7.1.	Introduction			
	6.7.2.	Programs for Developing Creativity			
	6.7.3.	Projects for Developing Creativity			
	6.7.4.	Promoting Creativity in the Family Context			
	6.7.5.	Summary			
	6.7.6.	Bibliographical References			
6.8.	Creativi	ty Assessment and Guidance			
	6.8.1.	Introduction			
	6.8.2.	Considerations on Assessment			
	6.8.3.	Evaluation Tests			
	6.8.4.	Subjective Assessment Tests			
	6.8.5.	Guidance on Assessment			
	6.8.6.	Summary			
	6.8.7.	Bibliographical References			
6.9.	High Capacities and Talents				
	6.9.1.	Introduction			
	6.9.2.	Relationship Between Giftedness and High Capacitie			
	6.9.3.	Connection Between Heredity and Environment			
	6.9.4.	Neuropsychological Foundation			
	6.9.5.	Models of Giftedness			
	6.9.6.	Summary			
	6.9.7.	Bibliographical References			
6.10.	Identific	eation and Diagnosis of High Capacities			
	6.10.1.	Introduction			
	6.10.2.	Main Characteristics			
	6.10.3.	How to Identify Far High-Capacity Individuals			
	6.10.4.	Role of the Agents Involved			
	6.10.5.	Assessment Tests and Instruments			
	6.10.6.	Intervention Programs			
	6.10.7.	Summary			

6.10.8. Bibliographical References

	6.11.1.	Introduction
	6.11.2.	Problems and Difficulties in the School Environment
	6.11.3.	Myths and Beliefs
	6.11.4.	Desynchronies
	6.11.5.	Differential Diagnosis
	6.11.6.	Differences Between Genders
	6.11.7.	Educational Needs
	6.11.8.	Summary
	6.11.9.	Bibliographical References
6.12.	Connec	tion Between Multiple Intelligences, High Capacities, Talent and Creativity
	6.12.1.	Introduction
	6.12.2.	Connection Between Multiple Intelligences and Creativity
	6.12.3.	Connection Between Multiple Intelligences, High Capacities and Talents
	6.12.4.	Differences Between Talent and High Capacities
	6.12.5.	Creativity, High Capacities and Talent
	6.12.6.	Summary
	6.12.7.	Bibliographical References
6.13.	Guiding	and Developing Multiple Intelligences
	6.13.1.	Introduction
	6.13.2.	Advising Teachers
	6.13.3.	Multidimensional Student Development
	6.13.4.	Curricular Enrichment
	6.13.5.	Strategies at Different Educational Levels
	6.13.6.	Summary
	6.13.7.	Bibliographical References

6.11. Problems and Difficulties

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6.14.	Creativi	ty for Problem-Solving	
	6.14.1.	Introduction	
	6.14.2.	Models of the Creative Process for Problem Solving	
	6.14.3.	Creative Project Development	
	6.14.4.	Summary	
	6.14.5.	Bibliographical References	
6.15.	Educati	onal Process and Family Support	
	6.15.1.	Introduction	
	6.15.2.	Guidelines for Teachers	
	6.15.3.	Educational Response in Children	
	6.15.4.	Educational Response in Primary Education	
	6.15.5.	Educational Response in Secondary Education	
	6.15.6.	Coordination with Families	
	6.15.7.	Program Implementation	
	6.15.8.	Summary	
	6.15.9.	Bibliographical References	
Mod	ule 7. N	leurological foundations of behavior	
7.1.	Philoso	phical Tradition: monism, dualism and integrationism	
7.2.		n from Spinoza to Donald Davidson	
7.3.			
7.4.	Behavio	or as a Function of the Nervous System	
7.5.	Organiz	ation of the Nervous System	
7.6.	Anatom	ny	
	7.6.1.	Central Nervous System vs. Peripheral Nervous System	
	7.6.2.	Motor Nervous System vs. Vegetative System	
	7.6.3.	Spinal Cord	
	7.6.4.	Brainstem	

7.6.5. Brain

7.7.1. Lower

7.7.2. Upper

7.7. Functional Activity

7.8.	Microstructure				
	7.8.1.	Neurons			
	7.8.2.	Other Cells			
7.9.	Embryology of the Nervous System				
7.10.	Spinal C	ord			
7.11.	Brainste	m			
7.12.	Cerebellum				
7.13.	Midbrain, Forebrain and Diencephalon				
7.14.	Subcortex				
7.15.	Basal Ganglia				
7.16.	Frontal (Orbital Lobe			
7.17.	Process	of Vascularization and Myelination of the Nervous System			
	7.17.1.	Reptilian Brain			
	7.17.2.	Basic Intelligence			
	7.17.3.	Pattern Intelligence			
	7.17.4.	Parameter Intelligence			
7.18.	Limbic E	Brain and the Chemistry of Basic Emotions			

Module 8. Principals of Neuroanatomy

- 8.1. Classification of Nerve Fibers (Erlanger and Gasser)
 - 8.1.1. Alpha
 - 8.1.2. Beta
 - 8.1.3. Gamma
 - 8.1.4. Delta
 - 8.1.5. Sympathetic
 - 8.1.6. Preganglionic
 - 8.1.7. Mechanoceptors
 - 8.1.8. Sympathetic Nociceptors
 - 8.1.9. Preganglionic
- 8.2. Vegetative Nervous System
- 8.3. Spinal Cord
- 8.4. Spinal Nerves
- 8.5. Afferent and Efferent Communication

8.6.	Gray Matter	
8.7.	White Matter	
8.8.	Brainstem	
	8.8.1.	Midbrain
	8.8.2.	Varolio Bridge
	8.8.3.	Medulla Oblongata
	8.8.4.	Cerebellum
8.9.	Limbic System	
	8.9.1.	Tonsils
	8.9.2.	Hippocampus
	8.9.3.	Hypothalamus
	8.9.4.	Cingulum
	8.9.5.	Sensory Thalamus
	8.9.6.	Base Cores
	8.9.7.	Periaqueductal Gray Region
	8.9.8.	Pituitary
	8.9.9.	Nucleus Accumbens
8.10.	Cerebral Cortex (Theory of Cerebral Evolution, Carter 2002)	
	8.10.1.	Parietal Cortex
	8.10.2.	Frontal Lobes (6m)
	8.10.3.	Limbic System (12 m)
	8.10.4.	Language Areas: 1st Wernicke, 2nd Broca. (18 m)
8.11.	Frontal	Orbital Lobe
8.12.	Functional Relationships of the NS with Other Organs and Systems	
8.13.	Motorneurone Transmission	
8.14.	Sensoperception	
8.15.	Neuroendocrinology (Hypothalamus-Endocrine System Relationship)	
	8.15.1.	Temperature Regulation

8.16. Neuroimmunology (Relationship between the Nervous System and Immune System)

8.15.2. Blood Pressure Regulation

8.15.3. Food Ingestion Regulation

8.15.4. Reproductive Function Regulation

8.17. Map Relating Emotion to Neuroanatomical Structures

Module 9. Principals of Cerebral Biochemistry

- 9.1. The Neurone and its Composition
 - 9.1.1. Axon
 - 9.1.2. Cellular Body or Soma
 - 9.1.3. Dendrites
- 9.2. Nervous Impulse
 - 9.2.1. Sodium / Potassium Pump
 - 9.2.2. Resting Potential
 - 9.2.3. Action Potential Generation
 - 9.2.4. GABA-Glutamate-Glutamine Cycle
- 9.3. Electric and Chemical Synapses
- 9.4. Neurotransmitters
 - 9.4.1. G.A.B.A
 - 9.4.2. Acetylcholine. (Ach)
 - 9.4.3. Catecholamines
 - 9.4.3.1. Adrenaline. (A)
 - 9.4.3.2. Noradrenaline. (NA)
 - 9.4.3.3. Dopamine (DA)
 - 9.4.3.3.1. DAe
 - 9.4.3.3.2. DAi
 - 9.4.4. Indolamines
 - 9.4.4.1. Serotonin. (5-HT)
 - 9.4.5. Gastrointestinal Polypeptides
 - 9.4.6. Protanglandins
 - 9.4.7. Glycerine
 - 9.4.8. Enkephalins and Endorphins
 - 9.4.9. Adenylate Cyclase (ATP)
- 9.5. Neurotransmission Process
- 9.6. Neurotransmitter Synthesis
- 9.7. Neurotransmitter Storage
- 9.8. Release into the Intersynaptic Space
- 9.9. Interaction with the Postsynaptic Receptor

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- 9.10. Neurotransmitter Reuptake
- 9.11. General Circulation Diffusion
- 9.12. Inactivation by the M.A.O
- 9.13. Rivers of Chemistry Flooding our Brains
- 9.14. Chemical Families and Interactions Between Them
- 9.15. Hormonal System
 - 9.15.1. Adrenaline
 - 9.15.2. Melatonin
 - 9.15.3. Adrenocorticotropin
 - 9.15.4. Norepinephrine

Module 10. Biochemistry of Mental Disorders

- 10.1. Neurotransmitters and Mental Illness
 - 10.1.1. Upper Stratum (NA / 5-HT) Own Anxiety, Stress
 - 10.1.2. Lower Stratum (DA / Ach) Own Helplessness, Depression
- 10.2. NA-Type Biochemical Imbalance
 - 10.2.1. Clinical Hypomania
 - 10.2.2. Clinical Psychopathy
 - 10.2.3. Clinical Psychosis
 - 10.2.4. Clinical Anxiety
 - 10.2.5. Clínical Loss of Impulse Control
- 10.3. Clinical Depression
- 10.4. Clinical Immunological Depression
- 10.5. Clinical Mania
- 10.6. Clinical Schizophrenia
- 10.7. Clinical Sleep Disorders
- 10.8. Clinical Impulse Control Disorders
- 10.9. Clinical Eating Disorders
- 10.10. Type Ach Biochemical Imbalance
 - 10.10.1. Complex Arterial Hypotension, Hypoglycemia, Bradycardia and Muscular Asthenia
 - 10.10.2. Physical and Psychological Exhaustion
 - 10.10.3. Attention and Memory Disorders
 - 10.10.4. Neurological Diseases Affecting the Locomotor System
 - 10.10.5. Clinical Affective Blunting and Consciousness Disorder

- 10.11. Type DAe Biochemical Imbalance
 - 10.11.1. Calm, Serenity Suppressing Irritability Complex
 - 10.11.2. Insomnia
 - 10.11.3. Ill-tempered, Without Expressing it
- 10.12. Type DAi Biochemical Imbalance
 - 10.12.1. Motor Hyperactivity
 - 10.12.2. Complex Tachycardia, Hypertension and Hyperglycemia
 - 10.12.3. Histrionic Spectrum Disorders with Anxious Depression

Module 11. Neuroanatomy and Mental Disorders

- 11.1. Relationship of Brain Chemistry and Neurological Activation
- 11.2. Reticular System and Mental Illness
 - 11.2.1. Neurotransmission Activator
 - 11.2.2. Conscious State Activator
 - 11.2.3. Sleep-Wake Cycle Activator
 - 11.2.4. Learning Activator
- 11.3. Brainstem
 - 11.3.1. Subtantia Nigra
 - 11.3.2. Base Nodes
 - 11.3.3. Locus Coeruleus
 - 11.3.4. Raphe
- 11.4. Limbic Structures Involved in Mental Disorders
 - 11.4.1. Tonsils
 - 11.4.2. Periaqueductal Gray Region
 - 11.4.3. Hypothalamus
 - 11.4.4. Caudate Nucleus
 - 11.4.5. Putamen
 - 11.4.6. Cingular Area
 - 11.4.7. Ventral Tegmental Area
 - 11.4.8. Nucleus Accumbens
 - 11.4.9. Sensory Thalamus

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- 11.5. Corpus Callosum
- 11.6. Cortical Structures
 - 11.6.1. Pre-optical Area
 - 11.6.2. Insula
 - 11.6.3. Association Areas
 - 11.6.4. Brodmann Areas
 - 11.6.5. Werkicke Area
 - 11.6.6. Broca Area
 - 11.6.7. Limbic Association Area
- 11.7. Frontal Orbital Lobe

Module 12. Biochemistry and Neuroanatomy of the Most Well-Known Mental Disorders in the Practitioner's Outpatient Clinic of Psychology

- 12.1. Neuroanatomy and Biochemistry in Consciousness and Memory Disorders
 - 12.1.1. Hypervigilance, Obnubilation, Confusional or Twilight States
 - 12.1.2. Depersonalization or Derealization Disorders
 - 12.1.3. Remote or Immediate Memory Disorders
 - 12.1.4. Clinical Disorientation, Drowsiness
 - 12.1.5. Obnubilation, Stupor, Delirium, Coma, Twilight State
 - 12.1.6. Clinical Agnosia, Anosoagnosia, Apraxia, Adiadocokinesia
 - 12.1.7. Memory Disorders: Amnesia, Paramnesia, Amnesic Screen, Lethologic
- 12.2. Neuroanatomy and Biochemistry of Anxiety Disorders
 - 12.2.1. Panic Attacks
 - 12.2.2. Agoraphobia
 - 12.2.3. Simple Phobia
 - 12.2.4. Generalized Anxiety Disorder
 - 12.2.5. Obsessive Compulsive Disorder
 - 12.2.6. Social Phobia
 - 12.2.7. Post-Traumatic Stress Disorder

- 12.3. Neuroanatomy and Biochemistry of Mood Disorders
 - 12.3.1. Dysthymia
 - 12.3.2. Sever Depression
 - 12.3.3. Adaptive Deficit Disorders
- 12.4. Neuroanatomy and Biochemistry of Eating Disorders
 - 12.4.1. Pica
 - 12.4.2. Rumination Disorder
 - 12.4.3. Anorexia Nervosa
 - 12.4.4. Bulimia Nervosa
 - 12.4.5. Binge Eating Disorder
- 12.5. Neuroanatomy and Biochemistry of Impulse Control Disorders
 - 12.5.1. Oppositional Defiant Disorder
 - 12.5.2. Intermittent Explosive Disorder
 - 12.5.3. Antisocial Personality Disorder
 - 12.5.4. Behavioral Disorders
 - 12.5.5. Kleptomania
 - 12.5.6. Pyromania
- 12.6. Neuroanatomy and Biochemistry of Sleep Disorders
 - 12.6.1. Insomnia
 - 12.6.2. Hypersomnia
 - 12.6.3. Narcolepsy
 - 12.6.4. Apnea
 - 12.6.5. Circadian Rhythm Disorders
 - 12.6.6. Restless Leg Syndrome
- 12.7. Neuroanatomy and Biochemistry of Personality Disorders
 - 12.7.1. Borderline Personality Disorder
 - 12.7.2. Schizoid Personality Disorder
 - 12.7.3. Avoidant Personality Disorder
 - 12.7.4. Narcissistic Personality Disorder
 - 12.7.5. Obsessive Compulsive Personality Disorder
- 12.8. Neuroanatomy and Biochemistry of Psychotic Disorders
 - 12.8.1. Schizophrenia
 - 12.8.2. Delirious Disorders
 - 12.8.3. Bipolar Disorder
 - 12.8.4. Psychotic Disorder

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Module 13. Pharmacological Treatment

- 13.1. Benzodiazepine Drugs
 - 13.1.1. Long-Term Action
 - 13.1.2. Immediate Action
 - 13.1.3. Short Term Action
 - 13.1.4. Ultra Short-Term Action
- 13.2. Antidepressive Drugs
 - 13.2.1. Tricyclics
 - 13.2.2. Tetracyclics
 - 13.2.3. SSRIs
 - 13.2.4. SNRIs
 - 13.2.5. Non-Selective 5-HT Reuptake Inhibitors
 - 13.2.6. NA Reuptake Inhibitors
 - 13.2.7. Antagonists and 5-HT Reuptake Antagonists / Inhibitors
 - 13.2.8. DA-NA Reuptake Inhibitors
 - 13.2.9. Agomelatine
- 13.3. M.A.O.I
- 13.4. Euthymizing Drugs
 - 13.4.1. Lithium
 - 13.4.2. Valproic Acid
 - 13.4.3. Carbamazepine
 - 13.4.4. Lamotrigine
 - 13.4.5. Tipiramate
 - 13.4.6. Oxacarbazepine
 - 13.4.7. Gavapentin
 - 13.4.8. Vigabatrin
 - 13.4.9. Levetiracetam
- 13.5. Antipscychotic Drugs

- 13.6. Classic Neuroleptics
 - 13.6.1. Haloperidol
 - 13.6.2. Chlorpromazine
 - 13.6.3. Levomepromazine
 - 13.6.4. Flufenazide
 - 13.6.5. Pipotiazide
 - 13.6.6. Zuclopenthixol
- 13.7. Atypical Neuroleptics
 - 13.7.1. Clozapine
 - 13.7.2. Olanzapine
 - 13.7.3. Resperidon
 - 13.7.4. Quetiapine
 - 13.7.5. Ziprasidone
 - 13.7.6. Aripiprazole

Module 14. Neurological Behavioral Sites

- 14.1. Reticular System
 - 14.1.1. Parts
 - 14.1.2. Functions
- 14.2. Brainstem
 - 14.2.1. Cerebral Biochemistry
 - 14.2.2. Influence of Biochemistry on Musculature
- 14.3. Activation of Limbic Structures
 - 14.3.1. Platform for Action
 - 14.3.2. Motivation
- 14.4. Sensation Felt
 - 14.4.1. Emotion
 - 14.4.2. Basic Emotions
- 14.5. Precortical Structures
 - 14.5.1. Feelings
 - 14.5.2. Unconcsious Thought
 - 14.5.3. Fantasy

- 14.6. Cortical Structures
 - 14.6.1. Motor Activity
 - 14.6.2. Sensory
- 14.7. Frontal Orbital Lobe
 - 14.7.1. Reflection
 - 14.7.2. Implementation
 - 14.7.3. Planning

Module 15. Pharmacological Intervention in Anxiety Disorders and Stress

- 15.1. Anxiety or Panic Disorder
- 15.2. Agoraphobia
- 15.3. Social Phobia
- 15.4. Specific Phobias
- 15.5. Generalized Anxiety Disorder
- 15.6. Obsessive Compulsive Disorder and Related Disorders
 - 15.6.1. Obsessive Compulsive Disorder
 - 15.6.2. Body Dysmorphic Disorder
 - 15.6.3. Hoarding Disorder
 - 15.6.4. Trichotillomania
 - 15.6.5. Excoriation Disorder
- 15.7. Separation Anxiety Disorder
- 15.8. Adaptive Disorder
 - 15.8.1. With a Depressed Mood
 - 15.8.2. With Anxiety
 - 15.8.3. With Behavioral Alteration
 - 15.8.4. With Mixed Emotional or Behavioral Alteration
- 15.9. Dissociative Disorders
 - 15.9.1. Dissociative Identity Disorder
 - 15.9.2. Dissociative Amnesia
 - 15.9.3. Depersonalization/Derealization Disorder

- 15.10. Somatic Symptom Disorders
 - 15.10.1. Illness Anxiety Disorder
 - 15.10.2. Conversion Disorder
 - 15.10.3. Factitious Disorder
- 15.11. Trauma and Stress-Related Disorders
 - 15.11.1. Acute Stress Disorder
 - 15.11.2. Post-Traumatic Stress
 - 15.11.3. Disinhibited Social Relationship Disorder

Module 16. Intervention with Psychopharmaceuticals in Depression, Eating Disorders and Sleep Disorders

- 16.1. Disruptive Mood Dysregulation Disorder
- 16.2. Major Depressive Disorder
 - 16.2.1. Single Episode
 - 16.2.2. With Psychotic Features
 - 16.2.3. Recurring
- 16.3. Persistent Depressive Disorder (Dysthymia)
 - 16.3.1. Pure Dysthymia
 - 16.3.2. With Major Depressive Episode
- 16.4. Premenstrual Dysphoric Disorder
- 16.5. Substance-Induced Depressive Disorder
- 16.6. Pica
- 16.7. Rumination Disorder
- 16.8. Food Avoidance Disorder
- 16.9. Anorexia Nervosa
 - 16.9.1. Restrictive
 - 16.9.2. By Binge Eating with Purging
- 16.10. Bulimia Nervosa
- 16.11. Binge Eating Disorder
- 16.12. Insomnia

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1612	Hyporcomp	10
10.10.	Hypersomn	10

16.14. Narcolepsy

16.14.1. Without Cataplexy

16.14.2. With Cataplexy

16.14.3. With Cerebellar Ataxia

16.14.4. With Obesity or Diabetes

16.15. Obstructive Sleep Apnea

16.16. Sleep-Related Hypoventilation

16.17. Non-REM Sleep Awakening Disorders

16.17.1. Sleepwalking

16.17.2. With Night Terrors

16.18. Nightmare Disorder

16.19. Restless Leg Syndrome

Module 17. Dyslexia, Dyscalculia and Hyperactivity

17.1. History of Learning Difficulties

17.1.1. Introduction

17.1.2. Definition of Learning Difficulties

17.1.3. Historical Development

17.1.4. Current Learning Difficulties

17.1.5. Neuropsychology of Learning Difficulties

17.1.6. Causes of Learning Difficulties

17.1.7. Classification of Learning Difficulties

17.1.8. Summary

17.1.9. Bibliographical References

17.2. Conceptualization of Dyslexia

17.2.1. Introduction

17.2.2. Definition

17.2.3. Neuropsychological Bases

17.2.4. Features

17.2.5. Subtypes

17.2.6. Summary

17.2.7. Bibliographical References



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17.3.	Neurop	sychological Assessment of Dyslexia
	17.3.1.	Introduction
	17.3.2.	Diagnostic Criteria for Dyslexia
	17.3.3.	How to Assess

17.3.4. Interview with the Tutor

17.3.5. Reading and Writing

17.3.6. Neuropsychological Assessment

17.3.7. Assessment of Other Related Aspects

17.3.8. Summary

17.3.9. Bibliographical References

17.4. Neuropsychological Intervention of Dyslexia

17.4.1. Introduction

17.4.2. Variables Involved

17.4.2. Neuropsychological Field

17.4.3. Intervention Programs

17.4.4. Summary

17.4.5. Bibliographical References

17.5. Conceptualization of Dyscalculia

17.5.1. Introduction

17.5.2. Definition of Dyscalculia

17.5.3. Features

17.5.4. Neurophysiological Basis

17.5.5. Summary

17.5.6. Bibliographical References

17.6. Neuropsychological Assessment of Dyscalculia

17.6.1. Introduction

17.6.2. Assessment Objectives

17.6.3. How to Assess

17.6.4. Report

17.6.5. Diagnosis

17.6.6. Summary

17.6.7. Bibliographical References

17.7. Neuropsychological Interventions of Dyscalculia

17.7.1. Introduction

17.7.2. Variables Involved in the Treatment

17.7.3. Neuropsychological Rehabilitation

17.7.4. Intervention in Dyscalculia

17.7.5. Resumen

17.7.6. Bibliographical References

17.8. Conceptualization of ADHD

17.8.1. Introduction

17.8.2. Definition of ADHD

17.8.3. Neuropsychological Bases

17.8.4. Characteristics of Children with ADHD

17.8.5. Subtypes

17.8.6. Summary

17.8.7. Bibliographical References

17.9. Neuropsychological Assessment of ADHD

17.9.1. Introduction

17.9.2. Assessment Objectives

17.9.3. How to Assess

17.9.4. Report

17.9.5. Diagnosis

17.9.6. Summary

17.9.7. Bibliographical References

17.10. Neuropsychological Interventions of ADHD

17.10.1. Introduction

17.10.2. Neuropsychological Field

17.10.3. Treatment of ADHD

17.10.4. Other Therapies

17.10.5. Intervention Programs

17.10.6. Summary

17.10.7. Bibliographical References

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17.11.	Comorbidity in Neurodevelopmental Disorders
	17.11.1. Introduction
	17.11.2. Neurodevelopment Disorders
	17.11.3. Dyslexia and Dyscalculia
	17.11.4. Dyslexia and ADHD
	17.11.5. Dyscalculia and ADHD
	17.11.6. Summary
	17.11.7. Bibliographic references
17.12.	Neurotechnology
	17.12.1. Introduction
	17.12.2. Applied to Dyslexia
	17.12.3. Applied to Dyscalculia
	17.12.4. Applied to ADHD
	17.12.5. Summary
	17.12.6. Bibliographical References
17.13.	Guidance for Parents and Teachers
	17.13.1. Introduction
	17.13.2. Guidance on Dyslexia
	17.13.3. Guidance on Dyscalculia
	17.13.4. Guidance on ADHD
	17.13.5. Summary

17.13.6. Bibliographical References

Module 18. Research Methodology I

- 18.1. Research Methodology
 - 18.1.1. Introduction
 - 18.1.2. The Importance of Research Methodology
 - 18.1.3. Scientific Knowledge
 - 18.1.4. Research Approaches
 - 18.1.5. Summary
 - 18.1.6. Bibliographical References
- 18.2. Choosing the Topic to Research
 - 18.2.1. Introduction
 - 18.2.2. The Issue of Research
 - 18.2.3. Defining the Problem
 - 18.2.4. Choice of the Research Question
 - 18.2.5. Research Objectives
 - 18.2.6. Variables: Types
 - 18.2.7. Summary
 - 18.2.8. Bibliographical References
- 18.3. Research Proposal
 - 18.3.1. Introduction
 - 18.3.2. Research Hypothesis
 - 18.3.3. Feasibility of the Research Project
 - 18.3.4. Introduction and Justification of the Research
 - 18.3.5. Summary
 - 18.3.6. Bibliographical References
- 18.4. Theoretical Framework
 - 18.4.1. Introduction
 - 18.4.2. Elaboration of the Theoretical Framework
 - 18.4.3. Resources Used
 - 18.4.4. APA Standards
 - 18.4.5. Summary
 - 18.4.6. Bibliographical References

18.5. Bibliography 18.5.1. Introduction 18.5.2. Importance of Bibliographic References 18.5.3. How to Reference According to APA Standards 18.5.4. Format of Annexes: Tables and Figures 18.5.5. Bibliography Managers: What Are They and How to Use Them 18.5.6. Summary 18.5.7. Bibliographical References 18.6. Methodological Framework 18.6.1. Introduction 18.6.2. Roadmap 18.6.3. Sections to be Included in the Methodological Framework 18.6.4. The Population 18.6.5. The Sample 18.6.6. Variables 18.6.7. Tools 18.6.8. Procedure 18.6.9. Summary 18.6.10. Bibliographical References 18.7. Research Designs 18.7.1. Introduction 18.7.2. Types of Designs 18.7.3. Characteristics of the Designs Used in Psychology 18.7.4. Research Designs Used in Education 18.7.5. Research Designs Used in Education Neuropsychology 18.7.6. Summary

18.7.7. Bibliographical References

18.8.	. Quantitative Research	
	18.8.1.	Introduction
	18.8.2.	Designing Randomized Groups
	18.8.3.	Designing Randomized Groups with Blocks
	18.8.4.	Other Designs used in Psychology
	18.8.5.	Statistical Techniques in Quantitative Research
	18.8.6.	Summary
	18.8.7.	Bibliographical References
18.9.	Quantita	ative Research II
	18.9.1.	Introduction
	18.9.2.	Unifactorial Intrasubject Designs
	18.9.3.	Techniques for Controlling the Effects of Intrasubject Designs
	18.9.4.	Statistical Techniques
	18.9.5.	Summary
	18.9.6.	Bibliographical References
18.10	Results	
	18.10.1	Introduction
	18.10.2	. How to Gather Data
	18.10.3	. How to Analyze Data
	18.10.4	. Statistical Programs
	18.10.5	. Summary
	18.10.6	. Bibliographical References
18.11	. Descrip	tive Statistics
	18.11.1	. Introduction
	18.11.2	. Research Variables
	18.11.3	. Quantitative Analyses
	18.11.4	. Qualitative Analyses
	18.11.5	. Resources that Can Be Used
	18.11.6	. Summary
	18.11.7	. Bibliographical References

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18.12. Hypothesis Contrast
18.12.1. Introduction
18.12.2. Statistical Hypotheses
18.12.3. How to Interpret Significance (p-value)
18.12.4. Criteria for Analyzing Parametric and Non-Parametric Tests
18.12.5. Summary
18.12.6. Bibliographical References
18.13. Correlational Statistics and Independence Analysis
18.13.1. Introduction
18 13.2. Pearson Correlation
18.13.3. Spearman's Correlation and Chi-Square
18.13.4. Results
18.13.5. Summary
18.13.6. Bibliographical References
18.14. Group Comparison Statistics
18.14.1. Introduction
18.14.2. Mann-Whitney T-Test and Mann-Whitney U-Test
18.14.3. T-Test and Wilcoxon Signed Ranges
18.14.4. The Results
18.14.5. Summary
18.14.6. Bibliographical References
18.15. Discussion and Conclusions
18.15.1. Introduction
18.15.2. What is Discussion
18.15.3. Organization of the Discussion
18.15.4. Conclusions
18.15.5. Limitations and Outlook
18.15.6. Summary
18.15.7. Bibliographical References

- 18.16. Elaboration of the Advanced Master's Degree Final Project
 - 18.16.1. Introduction
 - 18.16.2. Front Page and Contents
 - 18.16.3. Introduction and Justification
 - 18.16.4. Theoretical Framework
 - 18.16.5. Methodological Framework
 - 18.16.6. The Results
 - 18.16.7. Intervention Program
 - 18.16.8. Discussion and Conclusions
 - 18.16.9. Summary
 - 18. 16.10. Bibliographic references

Module 19. Research Methodology II

- 19.1. Research in the Educational Environment
 - 19.1.1. Introduction
 - 19.1.2. Research Characteristics
 - 19.1.3. Research in the Classroom
 - 19.1.4. Keys Needed for Research
 - 19.1.5. Examples:
 - 19.1.6. Summary
 - 19.1.7. Bibliographical References
- 19.2. Neuropsychological Research
 - 19.2.1. Introduction
 - 19.2.2. Educational Neuropsychological Research
 - 19.2.3. Knowledge and the Scientific Method
 - 19.2.4. Types of Approaches
 - 19.2.5. Research Stages
 - 19.2.6. Summary
 - 19.2.7. Bibliographical References

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9.3.	Ethics of	of Research	
	19.3.1.	Introduction	
	19.3.2.	Informed Consent	
	19.3.3.	Data Protection Law	
	19.3.4.	Summary	
	19.3.5.	Bibliographical References	
9.4.	Reliabili	Reliability and Validity	
	19.4.1.	Introduction	
	19.4.2.	Reliability and Validity in Research	
	19.4.3.	Reliability and Validity in Assessmen	
	19.4.4.	Summary	
	19.4.5.	Bibliographical References	
9.5.	Control	ling Variables in Research	
	19.5.1.	Introduction	
	19.5.2.	Choosing Variables	
	19.5.3.	Controlling Variables	
	19.5.4.	Sample Selection	
	19.5.5.	Summary	
	19.5.6.	Bibliographical References	
9.6.	The Qua	antitative Research Approach	
	19.6.1.	Introduction	
	19.6.2.	Features	
	19.6.3.	Stages	
	19.6.4.	Assessment Tools	
	19.6.5.	Summary	
	19.6.6.	Bibliographical References	

19.7.	Qualitat	ive Research Approach I
	19.7.1.	Introduction
	19.7.2.	Systematic Observation
	19.7.3.	Research Stages
	19.7.4.	Sampling Techniques
	19.7.5.	Quality Control
	19.7.6.	Statistical Techniques
	19.7.7.	Summary
	19.7.8.	Bibliographical References
19.8.	Qualitat	ive Research Approach II
	19.8.1.	Introduction
	19.8.2.	The Survey
	19.8.3.	Sampling Techniques
	19.8.4.	Survey Stages
	19.8.5.	Research Designs
	19.8.6.	Statistical Techniques
	19.8.7.	Summary
		Bibliographical References
19.9.	Qualitat	ive Research Approach III
	19.9.1.	Introduction
	19.9.2.	Types of Interviews and Characteristics
	19.9.3.	Preparing the Interview
	19.9.4.	Group Interviews
	19.9.5.	Statistical Techniques

19.9.6. Summary

19.9.7. Bibliographical References

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19.10.	Single Case Designs
	19.10.1. Introduction
	19.10.2. Features
	19.10.3. Types
	19.10.4. Statistical Techniques
	19.10.5. Summary
	19.10.6. Bibliographical References
19.11.	Research-Action
	19.11.1. Introduction
	19.11.2. Objectives of Research-Action
	19.11.3. Features
	19.11.4. Phases
	19.11.5. Myths
	19.11.6. Examples:
	19.11.7. Summary
	19.11.8. Bibliographical References
19.12.	Gathering Information for Research
	19.12.1. Introduction
	19.12.2. Techniques for Gathering Information
	19.12.3. Assessing Research
	19.12.4. Assessment
	19.12.5. Interpretation of Results
	19.12.6. Summary
	19.12.7. Bibliographical References
19.13.	Data Management in Research
	19.13.1. Introduction
	19.13.2. Databases
	19.13.3. Data in Excel
	19.13.4. Data in SPSS
	19.13.5. Summary
	19.13.6. Bibliographical References

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19.14. Spreading Results in Neuropsychology
      19.14.1. Introduction
      19.14.2. Publications
      19.14.3. Specialized Journals
      19.14.4. Summary
      19.14.5. Bibliographical References
19.15. Scientific Journals
      19.15.1. Introduction
      19.15.2. Features
      19.15.3. Types of Journals
      19.15.4. Quality Indicators
      19.15.5. Submitting Articles
      19.15.6. Summary
      19.15.7. Bibliographical References
19.16. The Scientific Article
      19.16.1. Introduction
      19.16.2. Types and Characteristics
      19.16.3. Structure
      19.16.4. Quality Indicator
      19.16.5. Summary
      19.16.6. Bibliographical References
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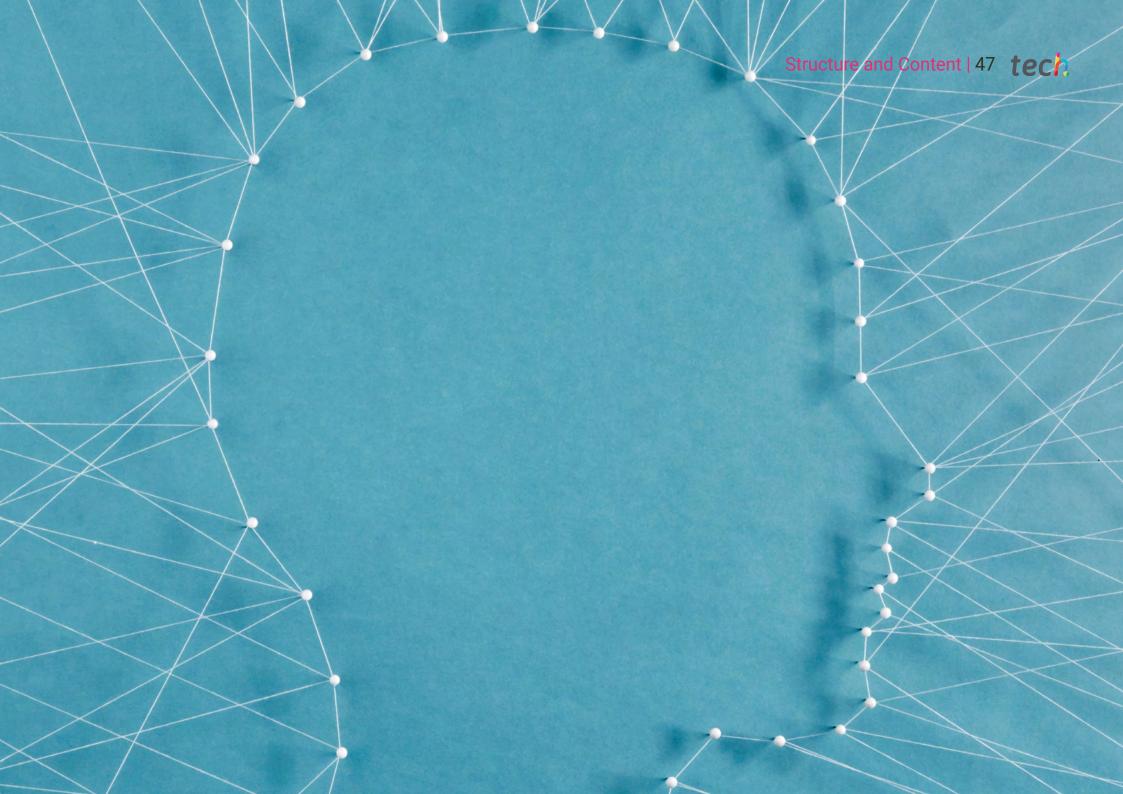
19.17.2. The Importance of Conferences

19.17.3. Scientific Committees 19.17.4. Oral Communications 19.17.5. The Scientific Poster

19.17.7. Bibliographical References

19.17. Scientific Conferences
19.17.1. Introduction

19.17.6. Summary





tech 50 | Methodology

At TECH we use the Case Method

What should a professional do in a given situation? Throughout the program, students will face multiple simulated clinical cases, based on real patients, in which they will have to do research, establish hypotheses, and ultimately resolve the situation. There is an abundance of scientific evidence on the effectiveness of the method. Specialists learn better, faster, and more sustainably over time.

With TECH the psychologist experiences a way of learning that is shaking the foundations of traditional universities around the world.



According to Dr. Gérvas, the clinical case is the annotated presentation of a patient, or group of patients, which becomes a "case", an example or model that illustrates some peculiar clinical component, either because of its teaching power or because of its uniqueness or rarity. It is essential that the case is based on current professional life, trying to recreate the real conditions in the psychologist's professional practice.



Did you know that this method was developed in 1912, at Harvard, for law students? The case method consisted of presenting students with real-life, complex situations for them to make decisions and justify their decisions on how to solve them. In 1924, Harvard adopted it as a standard teaching method"

The effectiveness of the method is justified by four fundamental achievements:

- 1. Psychologists who follow this method not only master the assimilation of concepts, but also develop their mental capacity by means of exercises to evaluate real situations and apply their knowledge.
- 2. Learning is solidly translated into practical skills that allow the psychologist to better integrate knowledge into clinical practice.
- 3. Ideas and concepts are understood more efficiently, given that the example situations are based on real-life.
- 4. Students like to feel that the effort they put into their studies is worthwhile. This then translates into a greater interest in learning and more time dedicated to working on the course.



tech 52 | Methodology

Relearning Methodology

At TECH we enhance the case method with the best 100% online teaching methodology available: Relearning.

Our university is the first in the world to combine the study of clinical cases with a 100% online learning system based on repetition, combining a minimum of 8 different elements in each lesson, which is a real revolution compared to the simple study and analysis of cases.

The psychologist will learn through real cases and by solving complex situations in simulated learning environments.

These simulations are developed using state-of-the-art software to facilitate immersive learning.



Methodology | 53 tech

At the forefront of world teaching, the Relearning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best online university (Columbia University).

This methodology has trained more than 150,000 psychologists with unprecedented success in all clinical specialties. Our pedagogical methodology is developed in a highly competitive environment, with a university student body with a strong socioeconomic profile and an average age of 43.5 years old.

Relearning will allow you to learn with less effort and better performance, involving you more in your training, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation for success.

In our program, learning is not a linear process, but rather a spiral (learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

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

tech 54 | Methodology

This program offers the best educational material, prepared with professionals in mind:



Study Material

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

These contents are then applied to the audiovisual format, to create the TECH online working method. All this, with the latest techniques that offer high quality pieces in each and every one of the materials that are made available to the student.



Latest Techniques and Procedures on Video

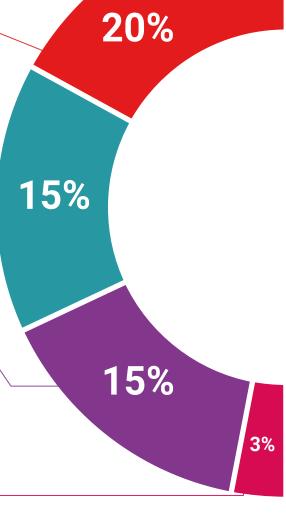
TECH introduces students to the latest techniques, to the latest educational advances, to the forefront of current psychology. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, you can watch the videos as many times as you like.



Interactive Summaries

The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".





Additional Reading

Recent articles, consensus documents and international guidelines, among others. In TECH's virtual library, students will have access to everything they need to complete their course.

Expert-Led Case Studies and Case Analysis Effective learning ought to be contextual. Therefore, TECH presents real cases in which the expert will guide students, focusing on and solving the different situations: a clear and direct way to achieve the highest degree of understanding.

Testing & Retesting rledge throughout the

Classes

We periodically evaluate and re-evaluate students' knowledge throughout the program, through assessment and self-assessment activities and exercises, so that they can see how they are achieving their goals.



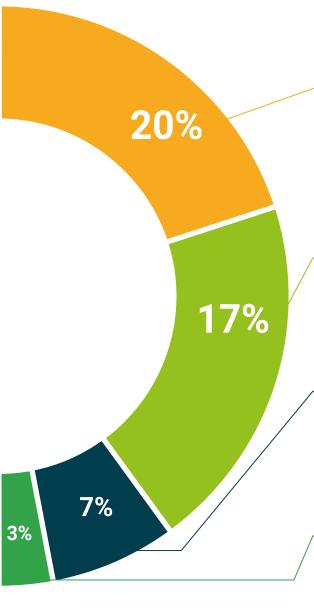
There is scientific evidence suggesting that observing third-party experts can be useful.

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.







tech 58 | Certificate

This **Advanced Master's Degree in Neuropsychology** contains the most complete and up-to-date program on the market.

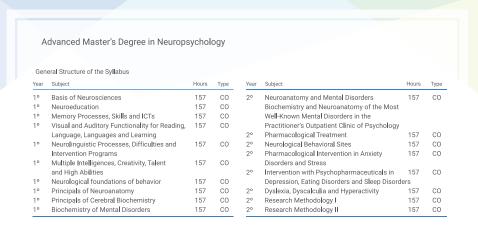
After the student has passed the assessments, they will receive their corresponding **Advanced Master's Degree** issued by **TECH Technological University** via tracked delivery*.

The certificate issued by **TECH Technological University** will reflect the qualification obtained in the Postgraduate Diploma, and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees.

Title: Advanced Master's Degree in Neuropsychology.

Official Number of Hours: 3000









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

technological university

Advanced Master's Degree Neuropsychology

» Modality: online

- » Duration: 2 years
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

