



# UNIVERSITÀ DEGLI STUDI DI PALERMO

<b>DEPARTMENT</b>	Biomedicina, Neuroscienze e Diagnostica avanzata		
<b>ACADEMIC YEAR</b>	2019/2020		
<b>BACHELOR'S DEGREE (BSC)</b>	PHYSIOTHERAPY		
<b>INTEGRATED COURSE</b>	PHYSIOTHERAPEUTIC REHABILITATION IN PAEDIATRICS - INTEGRATED COURSE		
<b>CODE</b>	15198		
<b>MODULES</b>	Yes		
<b>NUMBER OF MODULES</b>	2		
<b>SCIENTIFIC SECTOR(S)</b>	MED/38, MED/48		
<b>HEAD PROFESSOR(S)</b>	PIRO ETTORE	Professore Associato	Univ. di PALERMO
<b>OTHER PROFESSOR(S)</b>	PIRO ETTORE	Professore Associato	Univ. di PALERMO
	MOCCIARO LOREDANA	Professore a contratto	Univ. di PALERMO
<b>CREDITS</b>	6		
<b>PROPAEDEUTICAL SUBJECTS</b>			
<b>MUTUALIZATION</b>			
<b>YEAR</b>	3		
<b>TERM (SEMESTER)</b>	2° semester		
<b>ATTENDANCE</b>	Mandatory		
<b>EVALUATION</b>	Out of 30		
<b>TEACHER OFFICE HOURS</b>	<b>PIRO ETTORE</b> Tuesday 09:00 09:30 Dipartimento materno infantile		

DOCENTE: Prof. ETTORE PIRO

<b>PREREQUISITES</b>	the student must know the basics of the CNS and peripheral anatomy and basics of neurophysiology
<b>LEARNING OUTCOMES</b>	<p>Acquiring knowledge and understanding of the neurological terminology in infant and rehabilitative field as a basis for defining and critical interpretation of the physiological-pathological conditions and subject of study</p> <p>Ability to apply knowledge and understanding to know the main features of neurological disorders that affect the slope of the sviluppo fetal embryo little patient and the specific habilitation strategies to be implemented in the treatment plan</p> <p>Judgement will evaluate the ability of interpretation of several clinical cases from both a cist aetiopathogenetic that the outcomes in terms of functionality and charge socket enabler, through ongoing discussion of lessons</p> <p>communication skills Be able to describe and illustrate through specific terminology the key features to the parents the child's pathology subject of takeover</p> <p>Learning ability</p> <p>Gain the ability to integrate knowledge (anatomical, physiological, clinical and habilitation) for a full therapeutic application</p>
<b>ASSESSMENT METHODS</b>	<p>The candidate must answer at least to two / three questions posed orally, on all parties covered by the program, with reference to the recommended texts and content of classes' arguments whose frequency is logically essential. Final assessment aims to evaluate whether the student has knowledge and understanding of the topics, has acquired jurisdiction to interpret and independent judgment of concrete cases. The sufficiency will be reached when the student shows knowledge and understanding of the subjects at least in broad outline, and has application skills sufficient to ensure an adequate level of interaction in the sphere of confrontation with doctors and parents. He/she must therefore have capacity in explaining these contents to the examiner. Below this threshold, the examination result insufficient. The more, however, the examinee will show particular ability in argumentation, exposition and interaction with the examiner and deepening the arguments, than the assessment will be more positive. The assessment is carried out of thirty.</p> <p>In the case of written test to be completed in a time of 60 minutes 6 questions articulated on the program developed to semi-structured questions lessons tend to ascertain the possession of skills, capacity and provided expertise. It will judge the content in terms of accuracy and use of technically appropriate language.</p> <p>The non-response to a question will determine 'the failure of the test.</p> <p>Evaluation and rating</p> <p>Vote</p> <p>Excellent 30 and 30 cum laude excellent knowledge of the topics, excellent properties of good language analytical ability, the student is able to apply knowledge to solve proposed problems</p> <p>very good 26-29 Good mastery of the subjects, full use of the language, the student is able to apply knowledge to solve proposed problems</p> <p>good 24-25 Basic knowledge of the main topics, discrete properties of language, with limited ability to independently apply the knowledge to the solution of the proposed problems</p> <p>satisfactory 21-23 The student does not have full knowledge of the main teaching topics But he has a basic knowledge, satisfactory property of language, poor ability to independently apply the knowledge acquired</p> <p>sufficient 18-20 the student has minimal basic knowledge of the main teaching and technical language issues, very little or no ability to independently apply the knowledge acquired</p> <p>Insufficient the student does not have an acceptable knowledge of the contents of the topics covered in the teaching</p>
<b>TEACHING METHODS</b>	frontal lessons

**MODULE  
GENERAL AND SPECIALIST PAEDIATRICS**

*Prof. ETTORE PIRO*

**SUGGESTED BIBLIOGRAPHY**

Neurology of the newborn J Volpe Saunders 2008  
 Neurologia Pediatrica Pavone Ruggeri Elsevier 2006  
 "Trattato di neurologia riabilitativa" di Formica e collaboratori. Editore: Marrapese – Roma "Lo sviluppo del bambino – dalla nascita a 5 anni" di Sheridan. Editore: Ambrosiana editore

<b>AMBIT</b>	10322-Scienze medico chirurgiche
<b>INDIVIDUAL STUDY (Hrs)</b>	45
<b>COURSE ACTIVITY (Hrs)</b>	30

**EDUCATIONAL OBJECTIVES OF THE MODULE**

Students will gain the knowledge on the fundamental principles of the etiology and pathogenesis of CNS diseases. They will learn the aspects of pathogenesis and development dynamics that determine the specific acquisition issues of neuropsico-behavioral skills. We will apply a learning strategy that involves students with the acquisition of the latest news in terms of habilitation and rehabilitation in children with special reference to cerebral palsy and all issues of development in the newborn with hypoxic - ischemic encephalopathy and premature

**SYLLABUS**

Hrs	Frontal teaching
8	Development of the Central Nervous System and the specific developmental abnormalities in the embryonic and fetal period. Teratogenicity .
4	Main clinical problems in the at-term and preterm babies with acquired perinatal and congenital or genetic conditions. Neonatal complications and their medium and long term impact on functional level
4	Imaging techniques and neurophysiological support and integrated diagnostics methods in the neuro-neonatological fields.
4	Normal and pathological development identification. Using screening test and second-level diagnosis tests.
4	Basic knowledge of pathophysiology of functional alterations in pediatric and developmental age .
6	Basic knowledge to recognize and classify the signs and symptoms of the main lesions of the musculoskeletal system

**MODULE  
PAEDIATRIC REHABILITATION**

*Prof.ssa LOREDANA MOCCIARO*

**SUGGESTED BIBLIOGRAPHY**

-Ferrari, G. Cioni - Le forme spastiche della paralisi cerebrale infantile. Guida all'esplorazione delle funzioni adattive- Editore: Springer Verlag  
 -Paola Puccini, Carlo Perfetti - L'intervento riabilitativo nel bambino affetto da paralisi cerebrale infantile - EditoreSBM  
 -Thomas Berry Brazelton - Il bambino da zero a tre anni – Editore : Fabbri  
 -Robert J. Palisano, Suzann K. Campbell, Margo Orlin - Physical Therapy for Children – Editore: Elsevier  
 -Ausili didattici forniti dal Docente

<b>AMBIT</b>	10329-Scienze della fisioterapia
<b>INDIVIDUAL STUDY (Hrs)</b>	45
<b>COURSE ACTIVITY (Hrs)</b>	30

**EDUCATIONAL OBJECTIVES OF THE MODULE**

At the end of the module the student will have acquired knowledge and understanding of the basic principles, the specific characteristics of physiotherapy in the pediatric field, and skills in identifying problems of physiotherapeutic interest, preventive, enabling / rehabilitative needs in the main pediatric diseases . Will be able to plan the physiotherapeutic management of the child and the family: from observation / evaluation, to the construction and verification of therapeutic exercise

**SYLLABUS**

Hrs	Frontal teaching
3	Introduction to the module The physiotherapist in the Pediatric field Physiotherapeutic reasoning in the pediatric field and intervention planning: from observation / evaluation, to construction and verification of therapeutic exercise ACF concept
2	ICF- CY Autonomy and participation of the pediatric patient: role of the physiotherapist
2	Methodology of research in the pediatric field Effectiveness and efficiency of physiotherapy treatment: role of international literature Guidelines in Physiotherapy
2	Functional Evaluation Tools
3	Physiotherapy rehabilitation in PCI
3	Physiotherapy rehabilitation in neuromuscular diseases, genetic pathologies and myelomeningocele
3	Physiotherapy rehabilitation in POPB Physiotherapy of the premature infant in TIN and follow-up
2	Physiotherapy rehabilitation in pediatric orthopedic diseases
2	Physiotherapeutic rehabilitation in oncohematology and pediatric rheumatology. Physiotherapeutic treatment of burns
2	Physiotherapy rehabilitation in pediatric respiratory disease
2	Orthoses and aids in the pediatric field
2	Synthesis and assignment of clinical cases to small groups of student
2	Presentation of clinical cases in the plenary