

UNIVERSITÀ DEGLI STUDI DI PALERMO

DEPARTMENT	Biomedicina, Neuroscienze e Diagnostica avanzata	
ACADEMIC YEAR	2018/2019	
BACHELOR'S DEGREE (BSC)	ORTHOTICS AND OPHTHALMOLOGIC CARE	
INTEGRATED COURSE	APPLIED ORTHOPTIC SCIENCES - INTEGRATED COURSE	
CODE	16902	
MODULES	Yes	
NUMBER OF MODULES	2	
SCIENTIFIC SECTOR(S)	MED/27, MED/50	
HEAD PROFESSOR(S)	GRASSO GIOVANNI Professore Associato Univ. di PALERMO	
OTHER PROFESSOR(S)	GRASSO GIOVANNI Professore Associato Univ. di PALERMO	
	CATALANO DARIO Professore a contratto Univ. di PALERMO	
CREDITS	8	
PROPAEDEUTICAL SUBJECTS		
MUTUALIZATION		
YEAR	3	
TERM (SEMESTER)	1° semester	
ATTENDANCE	Mandatory	
EVALUATION	Out of 30	
TEACHER OFFICE HOURS	GRASSO GIOVANNI	
	Monday 14:00 16:00 Clinica Neurochirurgica	

DOCENTE: Prof. GIOVANNI GRASSO

LEARNING OUTCOMES Knowledge and ability to understand Widents should have obtained the following knowledge and skills' understanding of - the main brain tumors intra-axial and examonas and other neuroscripcial diseases of interest on the visual system. Capacity to apply knowledge and understanding At the end of the course the students must have achieved capacity to translate into professional practice the knowledge acquired. They should be able to - understand the pathophysiology of the diseases addressed and initiate diagnostic and therapeutic protocols before the specialized management. Making judgments Students must achieve capacity in critical and judgmental formulation. To this end they must have heard the argument methodological procedure, which waking judgments Students must achieve capacity in critical and judgmental formulation. To this end they must have heard the argument methodological procedure, which waking judgments Students, at the end of the course, will have to achieve the following skills: 1) know the main neurosurgical diseases with particular interest to those affecting the visual pathways. They must, therefore, know express in any form of oral information acquired and translate the informational and instrument- al. The end of the course the students will acquire the following skills: learning: be able to understand the main diagnostic strategies - Clinical and instrument- tice and gives sets - Know the main multimode of the course; the interview, in order to check skills and the ability to order and consists of an interview, in order to check skills and the ability of orders and according the use of language adequate sufficiently anticular knowledge, the ability of organization and processing clinical skills and the ability to style the asme- The ability of content reganzization and processing clinical skills	PREREQUISITES	Basic knowledge of the visual pathways
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TEACHING METHODS lectures	TEACHING METHODS	

MODULE APPLIED TECHNICAL AND MEDICAL SCIENCES 2

Prof. DARIO CATALANO

SUGGESTED BIBLIOGRAPHY			
Liuzzi L, Bartoli F. Manuale di oftalmologia. Minerva Italica ed. Azzolini C., Carta F., Marchini G., Menchini U. Clinica dell'apparato visivo. Ed. Masson Edra LSWR 2010 Carta F., Carta A. Neuroftalmologia. Monduzzi ed.			
AMBIT	10331-Scienze dell' ortottica e dell' assistenza di oftalmologia		
INDIVIDUAL STUDY (Hrs)	75		
COURSE ACTIVITY (Hrs)	50		
EDUCATIONAL OBJECTIVES OF THE MODULE			
Students must acquire the knowledge in order to correctly into	reprote the signs and equilar symptoms with particular integration		

Students must acquire the knowledge in order to correctly interpret the signs and ocular symptoms with particular integration with the concepts learned in the other module of the course; they will have to understand the ophthalmic abnormalities related to the presence of neurological and neurosurgical diseases treated, adding even the specialists medical figures in the evaluation of ocular impairment of these clinical situations.

	SYLLABUS	
Hrs	Frontal teaching	
2	Anatomy of the optic nerve head and visual pathways, the orbit.	
5	Morphometric tools for the evaluation of the optic disc and retinal nerve fiber: principles, indications, modality of the exam, advantages and limits of HRT, OCT, GDx. Applications in congenital or acquired dysmorphism, in glaucoma, in the anterior optic neuropathies .	
4	General principles of traditional and computerized perimetry, positive and negative, relative and absolute scotomas. Type and performance of the main perimeters. Examination procedures in perimetry. The perimetric indexes.	
4	Perimetry nell'ambliopia and in disorders of eye motility. Perimetry in major ocular and neuroftalmologiche affections. Diagnosis of lesion level depending on the visual field defect.	
5	Abnormal position of the head and squint in neurophthalmic disease.	
5	Nistagmus	
5	Balance and tempore - mandible articulation disorders in relation to binocular vision.	
5	Orthoptic evaluation in neurological patient.	
Hrs	Practice	
5	Diagnostic methods in neurophthalmic diseases.	
10	Perimetry nell'ambliopia and in disorders of eye motility. Perimetry in major ocular and neuroftalmologiche affections. Diagnosis of lesion level depending on the visual field defect.	

MODULE NEUROSURGERY

Prof. GIOVANNI GRASSO

SUGGESTED BIBLIOGRAPHY

Articoli scientifici internazionali

International scientific papers	
AMBIT	10324-Scienze interdisciplinari e cliniche
INDIVIDUAL STUDY (Hrs)	45
COURSE ACTIVITY (Hrs)	30
EDUCATIONAL OBJECTIVES OF THE MODU	

EDUCATIONAL OBJECTIVES OF THE MODULE

Students must acquire the knowledge that will be of benefit to correctly interpret the signs and neurological symptoms related to a framework of pathology. They will have to learn concepts that will allow to frame the syndromes related to the presence of the treated neurosurgical pathologies. The course will allow , in addition, for each group of treated diseases , to acquire specific information on the epidemiological, clinical , pathophysiological , prognostic and therapeutic aspects.

SYLLABUS

Hrs	Frontal teaching
10	Primary glial tumors
5	Extra-axial brain tumors
5	Cerebral aneurysms and AVMs
2	Cavernous angiomas
2	Hydrocephalus and other intracranial malformations
5	Diagnostic criteria and multimodal therapy
1	Multimodal therapy and future perspectives