



UNIVERSITÀ DEGLI STUDI DI PALERMO

DEPARTMENT	Promozione della Salute, Materno-Infantile, di Medicina Interna e Specialistica di Eccellenza "G. D'Alessandro"		
ACADEMIC YEAR	2019/2020		
BACHELOR'S DEGREE (BSC)	MIDWIFERY (QUALIFYING FOR PROFESSIONAL PRACTICE)		
INTEGRATED COURSE	ANATOMY, HISTOLOGY AND MICROBIOLOGY - INTEGRATED COURSE		
CODE	18644		
MODULES	Yes		
NUMBER OF MODULES	3		
SCIENTIFIC SECTOR(S)	BIO/16, MED/07, BIO/17		
HEAD PROFESSOR(S)	GIAMMANCO ANNA	Professore a contratto in quiescenza	Univ. di PALERMO
OTHER PROFESSOR(S)	UZZO MARIA LAURA	Ricercatore	Univ. di PALERMO
	ANZALONE RITA	Ricercatore	Univ. di PALERMO
	GIAMMANCO ANNA	Professore a contratto in quiescenza	Univ. di PALERMO
CREDITS	9		
PROPAEDEUTICAL SUBJECTS			
MUTUALIZATION			
YEAR	1		
TERM (SEMESTER)	1° semester		
ATTENDANCE	Mandatory		
EVALUATION	Out of 30		
TEACHER OFFICE HOURS	<p>ANZALONE RITA Tuesday 10:00 12:00 DIPARTIMENTO Medicina di Precisione in Area Medica, Chirurgica e Critica, Disponibile tutti i giorni della settimana previo appuntamento concordato via e-mail o telefono Thursday 10:00 12:00 DIPARTIMENTO Medicina di Precisione in Area Medica, Chirurgica e Critica, Disponibile tutti i giorni della settimana previo appuntamento concordato via e-mail o telefono</p> <p>GIAMMANCO ANNA Tuesday 12:00 14:00 Dip Pro.Mi.Se</p> <p>UZZO MARIA LAURA Tuesday 10:00 12:00 Sezione di Istologia del BIONEC Thursday 10:00 12:00 Sezione di Istologia del BIONEC</p>		

PREREQUISITES	Students should have the basic knowledge of biology, chemistry and physics
LEARNING OUTCOMES	<p>Knowledge and ability to understand: acquiring knowledge of the human body organs and systems with respect to the application in the obstetric field, the morpho-structural organization macro and microscopic and biochemical bases, including also some specific recent issues in the field, acquire knowledge of the structural and biological characteristics of microorganisms, the interaction between microorganisms and host, the characteristics of the main infectious diseases. Knowledge of the structural components of the human body. Knowledge of the equipment and systems and understanding of morpho-functional relationship between the organs that constitute them.</p> <p>Applying knowledge and understanding: to be able to apply their knowledge to the principal issues of the Microbiology and Infectious Diseases, to choose and use appropriate approaches to each issue in the prevention of infectious diseases by identifying advantages and limitations. Ability to apply knowledge of the main mechanisms of the organ function and adjustment apparatus and Functional integration of multiple devices in the execution of specific tasks. Ability to gather and interpret data considered useful to inform judgments on basic aspects of the disciplines of the course.</p> <p>Making judgments: to be able to formulate hypotheses, to collect and critically evaluate data, to solve problems. Be able to formulate personal judgments to solve analytical and critical problems ("problem solving") and be able to independently search for scientific information, without waiting for it to be provided to them. Ability to evaluate data concerning the morphological changes of the body during the obstetric practice using anatomical knowledge and demonstrating scientific critical skills; gain the ability to indicate the useful choices for solving problems within the disciplines of C.I. through critical analysis of the data found in the international literature and analysis of case studies.</p> <p>Communication skills: Interact with other professions involved in patient care through an efficient teamwork, acquire the ability to present and communicate the work carried out individually or in groups.</p> <p>Learning skills: to acquire the ability to retrieve useful data for professional training and further education (degree, master of I level etc)</p>
ASSESSMENT METHODS	<p>Oral examination which consists of an interview aimed at verifying knowledge and full understanding of the topics addressed in the course, as well as the candidate personal capacity of explain and processing his/her knowledge. Questions (min.2) are open and semi-structured and are specifically designed to test the learning outcomes envisaged, will tend to find (a) the acquired knowledge; B) the processing capacities; (C) possession of adequate exhibition capacity. A) As far as knowledge verification is concerned, the ability to establish links between the content (theories, models, tools, etc.) that is the subject of the course will be required.</p> <p>(B) As far as the verification of processing capacity is concerned, at least one of the following three objectives shall be indicated:</p> <p>B1) provide independent judgments about disciplinary content;</p> <p>B2) Understand the applications or their implications within the discipline;</p> <p>B3) place disciplinary content within the professional, technological or sociocultural context of reference.</p> <p>The maximum score is obtained if the audit ensures the full possession of the following three aspects: a judgmental capacity that can represent emerging and / or unexplored aspects of the discipline; A strong ability to represent the impact of the contents of the course within the sector / discipline in which the content is enrolled; Finally, a mastery in the ability to represent innovative ideas and / or solutions within the professional, technological or sociocultural context of reference. (C) As regards the examination of the exhibition capacities, a minimum assessment is made where the examination demonstrates that 'a language property is appropriate to the reference context but that is not sufficiently articulated, whereas the maximum assessment may 'To be achieved by those who demonstrate full mastery of the sectoral language as well. In order to pass the exam the candidate has to be evaluated with a mark between 18 and 30.</p> <p>30-30 laude: Excellent knowledge of teaching content; students demonstrate high analytical and synthetic capacity and it is able to apply the knowledge to solve problems of high complexity</p> <p>27-29: Excellent knowledge of teaching content and excellent properties of language; students demonstrate analytical and synthetic skills and able to apply their knowledge to solve moderately complex and, in some cases problems, even high</p> <p>24-26: Good knowledge of teaching content and good properties of language, the student is able to apply the knowledge to solve problems of medium complexity</p> <p>21-23: Fair knowledge of teaching content, in some cases limited to the main topic; acceptable ability to use the specific language of the discipline and independently apply the knowledge acquired</p>

	18-20: Minimum knowledge of teaching content, often limited to the main topic; modest ability to use the specific language of the discipline and independently apply the knowledge acquired Insufficient: He does not have an acceptable knowledge of the main teaching content, very little or no ability to use the specific language of the discipline and independently apply the knowledge acquired
TEACHING METHODS	Frontal lessons

**MODULE
MICROBIOLOGY**

Prof.ssa ANNA GIAMMANCO

SUGGESTED BIBLIOGRAPHY

Sherris Microbiologia medica eds 5 editore EMSI

AMBIT	10304-Scienze biomediche
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INDIVIDUAL STUDY (Hrs)	45
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COURSE ACTIVITY (Hrs)	30
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EDUCATIONAL OBJECTIVES OF THE MODULE

Knowledge of the structural characteristics of microorganisms , the interaction between them and the host and the pathogenic mechanisms that determine the onset of major diseases . It is essential also , the acquisition of knowledge of preventive measures to promote health at the individual and collectivity .

SYLLABUS

Hrs	Frontal teaching
4	Microbial structure metabolic activity, replication and cultivation
4	Microbiata, Antimicrobial drugs.Disinfection and sterilization
2	Diagnostic procedures
4	Staphylococcus, Streptococcus, Neisseria, Enterobacteria
2	Mycobacterium, Treponema
4	Herpesvirus, Papillomavirus, Orthomyxovirus, Picornavirus
2	Candida,Aspergillus ,Criptococcus, Protozoi
2	Retrovirus, HepatitisViruses
2	Gastrointestinal infections, nosocomial infections.
4	Diagnostic procedure by direct and indirect evaluation for Urinary tract infection; Gastrointestinal infections ; genital infections; central nervous system infections,intravascular infections bacteriemia and toxemia; respiratory infections.

MODULE HISTOLOGY

Prof.ssa MARIA LAURA UZZO

SUGGESTED BIBLIOGRAPHY

AA VV Citologia E Istologia Funzionale Edi Ermes, Edizione: 2005
Moore- Persaud – Sviluppo prenatale dell'uomo, Edises Napoli, 2009

AMBIT	10304-Scienze biomediche
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INDIVIDUAL STUDY (Hrs)	45
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COURSE ACTIVITY (Hrs)	30
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EDUCATIONAL OBJECTIVES OF THE MODULE

The student must achieve a degree of background knowledge of the histology of which learns the basic principles. This is achieved through lectures that introduce topics that are the Foundation of Cytology, histology and Embryology and their implications in obstetric field

SYLLABUS

Hrs	Frontal teaching
4	The optical microscope: notes on the structure of the optical microscope. Histological sample preparation techniques: fixation, inclusion, dyes, immunohistochemistry
5	Overview of cell theory. Syncytia and Plasmodia. Cell differentiation. Tissues. Organs. Systems. General morphological architecture of the cell. Physical and chemical characterization of the cell: notes on the inorganic and organic components. Cellular metabolism and vital manifestations of protoplasm
4	Structural and ultrastructural morphological characterization of the cell: the cytoplasmic membrane, cytoplasmic devices: structure, ultrastructure and functions of endoplasmic reticulum, mitochondria, lysosomes, Golgi complex.
4	Epithelial tissue: classification and morphofunctional considerations: coating, sensory epithelia, secretory Secreting cell units and notes on the structure and function of major exocrine and endocrine glands.
4	The connective tissue: classification: morphological and functional considerations. The cells and the intercellular matrix. The contractile tissue, classification: morphological and functional considerations.
5	Nervous tissue: conceptual evolution of the neuron and research methodology. The neuron as morphological entity: number and size of neurons; shape of the neurons; classifications; structure and ultrastructure of the neuron components. Central and peripheral nerve endings. Glia: generalities.
4	Gametes: origin and development. Fertilization and implantation of the blastocyst. First weeks of embryonic development. umbilical cord and placenta.

**MODULE
GENERAL HUMAN ANATOMY**

Prof.ssa RITA ANZALONE

SUGGESTED BIBLIOGRAPHY

Martini Timmons Tallitsch- Anatomia Umana , edises

AMBIT	10304-Scienze biomediche
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INDIVIDUAL STUDY (Hrs)	45
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COURSE ACTIVITY (Hrs)	30
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EDUCATIONAL OBJECTIVES OF THE MODULE

Course objective is to provide the anatomical and histological basis, systematic and topographic both macroscopic microscopic. After completing the course, students must demonstrate that they have acquired knowledge on the topographic distribution of the various components of the human body. Able to describe the structural and ultrastructural characteristics of organs and systems, through the use of images.

SYLLABUS

Hrs	Frontal teaching
2	General Anatomy - Characteristics and significance of the discipline. Subdivision of matter according to the means of investigation and the study methods. Organization of living beings and, in particular, of the human body. The systems and organ systems and their classification according to the manifestations of the 'life'. The anatomical terminology of the external forms of the human body. The cavity 'bust. The anatomical position and terms posizione.Generalita 'on the cell. Definition of tissue, organ class.
2	The locomotor system. General on the skeleton; recognition and orientation of the skeletal segments. Classification of joints. axial skeleton: skull
2	Spinal column and rib cage; upper and lower limb
2	The cardiovascular system General information on large and small circulation. The heart: seat, forms, reports, structure; the apparatus conduction; vascularization, the pericardium.
2	The blood. The blood and lymph vessels
2	Respiratory system, pleura
2	Urinary system
2	Digestive System, the peritoneum
2	Liver and Pancreas
2	endocrine system
2	Anatomy of the female pelvis
2	Female reproductive system
2	The male gonad and genital tract
2	Generality of the integumentary: the mammary gland
2	Generality of the nervous system