



UNIVERSITÀ DEGLI STUDI DI PALERMO

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| DEPARTMENT | Biomedicina, Neuroscienze e Diagnostica avanzata | | |
| ACADEMIC YEAR | 2020/2021 | | |
| BACHELOR'S DEGREE (BSC) | ORTHOTICS AND OPHTHALMOLOGIC CARE | | |
| INTEGRATED COURSE | INTERDISCIPLINARY SCIENCES - INTEGRATED COURSE | | |
| CODE | 06354 | | |
| MODULES | Yes | | |
| NUMBER OF MODULES | 3 | | |
| SCIENTIFIC SECTOR(S) | MED/36, ING-INF/05, MED/42 | | |
| HEAD PROFESSOR(S) | CANNELLA ROBERTO | Ricercatore a tempo determinato | Univ. di PALERMO |
| OTHER PROFESSOR(S) | FRANCHINI SILVIA GIUSEPPINA | Professore a contratto | Univ. di PALERMO |
| | CANNELLA ROBERTO | Ricercatore a tempo determinato | Univ. di PALERMO |
| | AMODIO ROSALBA | Professore a contratto | Univ. di PALERMO |
| CREDITS | 9 | | |
| PROPAEDEUTICAL SUBJECTS | | | |
| MUTUALIZATION | | | |
| YEAR | 3 | | |
| TERM (SEMESTER) | 1° semester | | |
| ATTENDANCE | Mandatory | | |
| EVALUATION | Out of 30 | | |
| TEACHER OFFICE HOURS | <p>CANNELLA ROBERTO Wednesday 09:00 - 14:00 Policlinico Paolo Giaccone, Servizio Centralizzato di Diagnostica per Immagini, Primo Piano.</p> <p>FRANCHINI SILVIA GIUSEPPINA Friday 11:00 - 12:00 Su appuntamento</p> | | |

DOCENTE: Prof. ROBERTO CANNELLA

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| PREREQUISITES | general knowledge of ocular diseases and diagnostic |
| LEARNING OUTCOMES | <p>Knowledge and ability to understand</p> <p>Acquisition: 1. Of the language proper to the discipline to understand it and to use it appropriately; 2. Of the techniques and tools in use at every single discipline.</p> <p>Capacity to apply knowledge and understanding</p> <p>Being able to: 1 identify the principles of the disciplines for use in the specific context but also to make additional use to other disciplines, with autonomous paths of use; 2. Knowing how to choose the appropriate semeiotici interventions and tools needed for clinical or scientific path identified.</p> <p>Making judgments</p> <p>Being able to identify and communicate the elements that characterize the individual disciplines, moving crosswise on more disciplines, which also involve the ophthalmic disciplines with relevance and competence</p> <p>Enable communication</p> <p>Being able to explain verbally what they have learned and the clinical and methodological reasoning, even a non-expert public.</p> <p>Capacity Learning</p> <p>Be able to: 1. Consult the scientific literature on hygiene and health education; 2. Increase the knowledge gained in the course to further advanced studies 3. Re-process what they have learned through the practice of specific techniques.</p> |
| ASSESSMENT METHODS | <p>Final evaluation is performed by oral exam according to the University calendar. An optional written test also may be used. The oral exam consists of an interview, in order to check skills and knowledge of the content of the course; the interview will relate to one or more relevant open or semi-structured questions. The questions tend to verify the acquired knowledge, the ability of organization and processing clinical skills and the ability to display the same. The ability of content organization and processing turns to test the clinical argument and applying concepts in a professional context. Oral presentation ability will be evaluated with a score gradually increasing according the use of language adequate sufficiently articulated to the professional conditions. The sufficiency threshold will be is reached when the student shows knowledge and understanding of the issues at least in broad outline, and has minimal application skills in order to solve concrete cases; he/she should show too own capacity and argumentative as to allow the transmission of his knowledge to the examiner. Below this threshold, the examination will result insufficient. The more, however, the examinee is able to interact with the examiner, and how much more his/her knowledge and ability go into the details of verification, the more the assessment will be positive. The assessment is carried out of thirty. Oral examination rating : 30-30L excellent; 27-29 very good ; 24-26 good; 21-23 discreet; 18-20 sufficient; 1-17 insufficient.</p> |
| TEACHING METHODS | DOCENTE: Prof. SALVATORE PARDO TEACHING METHODS frontal lessons, clinical practice |

**MODULE
IMAGE DIAGNOSTICS AND RADIOTHERAPY**

Prof. ROBERTO CANNELLA

SUGGESTED BIBLIOGRAPHY

Lezioni powerpoint Diagnostica per immagini e radioterapia di Cittadini Giorgio - Cittadini Giuseppe - Sardanelli Francesco
Editore: ECIG Genere: scienze mediche. medicina Argomento: diagnostica medica, radioterapia Edizione: 6 Pagine: 1074
ISBN: 8875441383 ISBN-13: 9788875441388 Data pubblicazione: 2008

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| AMBIT | 10323-Scienze della prevenzione dei servizi sanitari |
| INDIVIDUAL STUDY (Hrs) | 45 |
| COURSE ACTIVITY (Hrs) | 30 |

EDUCATIONAL OBJECTIVES OF THE MODULE

Knowledge and understanding skills

Acquisition: 1. of the proper language of the discipline to understand it and to use it appropriately; 2. of techniques and tools in use for each discipline.

Ability to apply knowledge and understanding

To be able to: 1 identify the principles of the disciplines to use them in their own field but also to make them complementary to other disciplines, with autonomous uses; 2. Know how to choose appropriate semeiotic interventions and the tools needed for the identified clinical or scientific pathway.

Judgment autonomy

Being able to identify and communicate the elements that characterize the individual disciplines, to move across disciplinary fields that also involve ophthalmic disciplines with pertinence and competence.

Communication skills

Being able to expose orally how much you learned and clinical and methodological reasoning, even to an unknowingly public.

Learning ability

To be able to: 1. Consult the scientific literature on hygiene and health education; 2. Increase the knowledge gained in the course to deepen advanced studies 3. Re-train what you learned through the practice of specific techniques.

SYLLABUS

| Hrs | Frontal teaching |
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| 4 | Knowing the physical bases of different image methods. Understanding the biological effects of ionizing radiation Knowing the possibilities and limits, indications, contraindications and risks of the different methods of investigation Knowing how to recognize the main normal anatomical structures for a radiology examination Traditional, computerized tomography and magnetic resonance imaging. Possessing elementary knowledge on radiology semeiology of the major pathologies with Reference to the various organs and apparatus Exposing some integrated diagnostic algorithms for the most serious clinical assessment |
| 4 | Properties and modes of production of X-rays and ionizing radiation Non-ionizing Radiations: Physical Characteristics and Applications in Diagnostic for Images. Principles of Image Formation (Analog and Digital). Means of contrast: classification and characteristics; Clinical applications; Adverse reactions and related measures. Computed tomography: operating principles. Ultrasound: ultrasound physics and general equipment concepts. Magnetic resonance: physical principles and general concepts of equipment. Nuclear Medicine: Physical Principles and General Equipment Concepts. Vascular and interventional radiology: general and major procedures. |
| 8 | THYROID - MAMMELLA - PARTI MOLLI Radio-isotopic thyroid study. Thyroid ultrasound: indications and limits. Ecocolor Doppler in thyroid and breast disease. Breast ultrasound: directions and limits. Mammography: technique and directions. Nodular breast disease: study protocols. OSTEO - ARTICULAR APPLIANCE Principal radiological and radioisotopic study of the skeleton. RESPIRATORY APPARATUS Thorax and Mediastine Study Techniques. DANGEROUS APPLIANCE Esophageal pathology: study techniques and indications. FEGATO - VIEW OF BILIARIES - PANCREAS - MILZA Methods for the study of gallbladder and biliary tract. URO-GENITAL APPARATUS AND OUTSIDE Uro-genital apparatus study techniques. Ovarian diseases. Uterine diseases. |

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| 4 | NERVOUS SYSTEM -Encefalo: major study methods. -Exocranial Expansion Processes: Study Protocols. -Evascular vascular accidents: haemorrhagic and thrombotic stroke. - Spinal cord: main study methods and indications |
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**MODULE
HYGIENE AND HEALTHCARE EDUCATION**

Prof.ssa ROSALBA AMODIO

SUGGESTED BIBLIOGRAPHY

BARBUTI S, BELLELLI E, FARA GM, GIAMMANCO G. - Igiene e medicina preventiva. Monduzzi, Bologna.
 SIGNORELLI C - Elementi di Metodologia epidemiologica - Societa' Editrice Universo, Roma V edizione, 2000.
 LANCIOTTI E - Igiene per le professioni sanitarie - McGrown Hill, 2012
 Durante lo svolgimento del corso altri riferimenti bibliografici ed eventuale altro materiale didattico aggiornato viene fornito dal docente stesso.

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| AMBIT | 10729-Attività formative affini o integrative |
| INDIVIDUAL STUDY (Hrs) | 45 |
| COURSE ACTIVITY (Hrs) | 30 |

EDUCATIONAL OBJECTIVES OF THE MODULE

Acquisition of basic knowledge of epidemiology, general and special prevention of infectious and chronic/degenerative diseases, especially in the field of ophthalmology.

SYLLABUS

| Hrs | Frontal teaching |
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| 4 | Introduction to hygiene, the concept of health, health promotion and disease prevention |
| 2 | indicators of health of a population : rates (morbidity, mortality, lethality). |
| 2 | Descriptive epidemiology |
| 2 | Analytical epidemiology: case-control studies; Cohort studies |
| 2 | Experimental epidemiology |
| 2 | Trends of infectious diseases among the population: epidemic, pandemic and sporadic |
| 6 | General prophylaxis of infectious diseases: notification, diagnostic assessment, isolation, disinfection and sterilization. |
| 2 | Hand washing |
| 2 | Active and passive immunity. Specific prophylaxis of infectious diseases, vaccine prophylaxis, serum prophylaxis, chemoprophylaxis |
| 2 | Required and recommended vaccinations |
| 2 | Strategies of health education |
| 2 | Nosocomial infections |

**MODULE
COMPUTER PROCESSING**

Prof.ssa SILVIA GIUSEPPINA FRANCHINI

SUGGESTED BIBLIOGRAPHY

Govoni M., Marone U., La patente europea del computer - Con Syllabus 4.0. Editore: Simone per la scuola, Napoli, 2004.

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| AMBIT | 10326-Scienze interdisciplinari |
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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

To know how to choose between the use of a proprietary application or an open source.

To know drafting a complex document structured in chapters, integral notes, header and footer page, illustrations, diagrams, tables, computer tables using a word processing application for.

To know build a spreadsheet structured in more pages and integral formulas, calculations for data, row totals and column graphs, data tables.

Knowing make a presentation of content, including multimedia, to support activities teaching or relationship.

Knowing build simple relational databases and data interrogation procedures contained therein.

Knowing how to use email, the PEC and the search engines and share data via the cloud.

Knowing how to prepare activities for communication through social networks and thematic platforms.

SYLLABUS

| Hrs | Frontal teaching |
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| 2 | Proprietary software and open source projects. |
| 6 | Applications (software) for: digital signatures, encryption, security (antivirus, firewall) |
| 12 | Applications for individual productivity: word processing, spreadsheet, presentation and desktop publishing, databases, vectorial and raster graphics, diagramming. |
| 10 | Communication and sharing across the Internet (cloud spaces, social networking, forums, chat, e-mail, PEC) and thematic platforms (research, publication, etc.). |