



# UNIVERSITÀ DEGLI STUDI DI PALERMO

<b>DEPARTMENT</b>	Medicina di Precisione in area Medica, Chirurgica e Critica		
<b>ACADEMIC YEAR</b>	2018/2019		
<b>BACHELOR'S DEGREE (BSC)</b>	DENTAL HYGIENE		
<b>INTEGRATED COURSE</b>	HARD DENTAL TISSUE DISEASES - INTEGRATED COURSE		
<b>CODE</b>	18964		
<b>MODULES</b>	Yes		
<b>NUMBER OF MODULES</b>	3		
<b>SCIENTIFIC SECTOR(S)</b>	MED/50, MED/36, MED/28		
<b>HEAD PROFESSOR(S)</b>	SCARDINA GIUSEPPE ALESSANDRO	Professore Ordinario	Univ. di PALERMO
<b>OTHER PROFESSOR(S)</b>	SCARDINA GIUSEPPE ALESSANDRO	Professore Ordinario	Univ. di PALERMO
	LO CASTO ANTONIO	Professore Associato	Univ. di PALERMO
	TOZZO PIETRO	Tutor di tirocinio di area sanitaria	Univ. di PALERMO
<b>CREDITS</b>	9		
<b>PROPAEDEUTICAL SUBJECTS</b>			
<b>MUTUALIZATION</b>			
<b>YEAR</b>	1		
<b>TERM (SEMESTER)</b>	2° semester		
<b>ATTENDANCE</b>	Mandatory		
<b>EVALUATION</b>	Out of 30		
<b>TEACHER OFFICE HOURS</b>	<p><b>LO CASTO ANTONIO</b> Monday 9:00 11:00 I piano, Sezione Scienze radiologiche, DIBIMED</p> <p><b>SCARDINA GIUSEPPE ALESSANDRO</b> Wednesday 09:30 11:00 Plesso di odontostomatologia primo piano stanza Prof. Scardina</p>		

**DOCENTE:** Prof. GIUSEPPE ALESSANDRO SCARDINA

<b>PREREQUISITES</b>	<ul style="list-style-type: none"><li>- knowledge of embryology, anatomy and physiology of oral cavity: soft tissues and teeth;</li><li>- knowledge of the mechanisms of flogosis (angioflogosis and histophygnosis) and of the immune response local and systemic.</li></ul>
<b>LEARNING OUTCOMES</b>	<p>The student should be able to diagnose, set up and maintain treatment plans. The student will also have to demonstrate communication skills with the patient interacting with them and the senior members of the family with the aim to make them understand the type of treatment proposed. The student will have to demonstrate the ability to learn the concepts taught throughout the course, showing the ability to link between them.</p>
<b>ASSESSMENT METHODS</b>	<p>Oral testing. The test aims to evaluate that the student possesses knowledge and understanding of the subjects of the integrated course program, autonomy of judgment, ability to apply the acquired knowledge, specific disciplinary language.</p> <p>Minimum number of questions: the student will have to answer a minimum of three questions, which will cover all the topics of the integrated course program, with reference to the suggested texts.</p> <p><b>ORAL ASSESSMENT AND ITS CRITERIA</b></p> <p>Testing is in thirty, as shown below.</p> <ul style="list-style-type: none"><li>- Rating: 30 - 30 and L - Rating: Excellent - ECTS grades: Excellent (A - A +)</li></ul> <p>Outcome: Excellent knowledge of the content of teaching. The student It demonstrates high analytical-synthetic capacity and is able to apply the Knowledge to solve complex problems.</p> <ul style="list-style-type: none"><li>- Rating: 27 - 29 - Rating: Excellent - ECTS grades: Very good (B)</li></ul> <p>Outcomes: Excellent knowledge of teaching content and excellent property language. The student demonstrates analytical-synthetic ability and ability to Applying knowledge to solve problems of complexity and, in some cases Cases, even high.</p> <ul style="list-style-type: none"><li>- Rating: 24 - 26 - Rating: Good - ECTS grades: Good (C)</li></ul> <p>Outcome: Good knowledge of teaching content and good knowledge of language. The student is able to apply the knowledge to solve Complex media problems.</p> <ul style="list-style-type: none"><li>- Rating: 21 - 23 - Rating: Discreet - ECTS grades: Satisfactory (D)</li></ul> <p>Outcome: Discreet knowledge of the content of teaching, in some cases Limited to the main topics. Acceptable ability to use language Specific discipline and apply the knowledge autonomously acquired.</p> <ul style="list-style-type: none"><li>- Rating: 18 - 20 - Rating: Sufficient - ECTS grades: Sufficient E</li></ul> <p>Outcome: Minimum knowledge of the content of teaching, often limited to Main topics. Modesta has the ability to use the specific language of the Discipline and apply the acquired knowledge independently.</p> <ul style="list-style-type: none"><li>- Rating: 1 - 17 - Rating: Insufficient - ECTS grades: Fail (F).</li></ul> <p>Outcome: Does not have an acceptable knowledge of the main content teaching. Poor or no ability to use the language Examination not passed.</p>
<b>TEACHING METHODS</b>	Lessons or seminars.

## MODULE RADIOLOGY

*Prof. ANTONIO LO CASTO*

### SUGGESTED BIBLIOGRAPHY

CARDINALE AE, DI GUGLIELMO L: "Radiologia stomatologica maxillo- facciale", Guido Gnocchi Editore, Napoli,1994.  
NARDI C, NARDI F, COLAGRANDE S: "Imaging dentale e oro-maxillo-facciale", Verduci Editore, Roma, 2013.

<b>AMBIT</b>	10731-Attività formative affini o integrative
<b>INDIVIDUAL STUDY (Hrs)</b>	45
<b>COURSE ACTIVITY (Hrs)</b>	30

### EDUCATIONAL OBJECTIVES OF THE MODULE

To supply the student the bases to understand the methodology of application of imaging techniques in oral and maxillofacial district, health risks related to radiations used to extract images from the human body and radiation protection laws, starting from preliminary informations on radiation physics and radiologic image formation principles, on radiologic devices technology, radiobiology and radiation protection, to finally understand the clinical informations from radiologic reports and images. Ability to understand the application methodology of imaging techniques in oral and maxillofacial district and health risks related to radiations used to extract images from the human body and radiation protection laws. Ability to understand the clinical informations from radiologic reports and images.

## SYLLABUS

Hrs	Frontal teaching
2	History and evolution of oral and maxillofacial radiology
2	Radiation physics: general informations
2	Principles and techniques of analogic and digital image formation
2	Intraoral radiography: paralleling technique, bisecting angle technique, bitewing technique, occlusal techniques
2	Panoramic radiography and teleradiography
2	Principles of fan and cone beam volumetric computed tomography
1	Ultrasound principles
2	Magnetic resonance principles
1	Nuclear medicine principles
4	Radiobiology and Radiation protection
2	Radiographic anatomy of teeth and maxillofacial structures
2	Congenital anomalies of teeth
2	Dental caries
2	Parodontal disease
2	Oncologic radiotherapy principles (with special reference to maxillofacial district)

**MODULE  
CARIOLOGY AND ELEMENTS OF CONSERVATIVE DENTISTRY**

*Prof. GIUSEPPE ALESSANDRO SCARDINA*

**SUGGESTED BIBLIOGRAPHY**

- Anatomia dentaria. M. Lautrou. Ed. Masson, Milano.
- Manuale di Disegno e Modellazione dentale. Mangani F., La Manna A. Martina Ed. Bologna.
- Carie dentali. Malattie e trattamento clinico. Fejerskov O., Kidd E.A.M. Antonio Delfino Ed., Roma.
- Moderni orientamenti per la restaurazione dentale. Anderlini G. Martina Ed. Bologna.
- Odontoiatria Restaurativa. Procedure di trattamento e prospettive future. AA.VV.. Masson – Elsevier Ed. Milano.
- Appunti delle Lezioni, Articoli scientifici.

<b>AMBIT</b>	10346-Scienze dell' igiene dentale
<b>INDIVIDUAL STUDY (Hrs)</b>	45
<b>COURSE ACTIVITY (Hrs)</b>	30

**EDUCATIONAL OBJECTIVES OF THE MODULE**

This module covers the fundamental concepts in restorative dentistry. The physiology of the pulpo-dentinal organ. The etiopathogenesis, prevention, the diagnosis and therapy of dental caries and its complications. Establish prevention protocols, provide diagnosis and therapeutic protocols of dental diseases. The relationship between restorative dentistry and periodontal tissues and its interrelations with the stomatal-gnatic function. Clinical and intraoral examination and clinical data recording; dental dam.

**SYLLABUS**

Hrs	Frontal teaching
2	Elements of histology, anatomy and physiology of the enamel and dental-pulp system.
2	Permanent and deciduous teeth nomenclature
2	Shapes and teeth Function. Occlusion. Intra and inter-arcade relations
2	Etiopathogenesis, anatomic-clinical classification, prevention, diagnosis of dental caries. Complications of dental caries.
2	Pulpitis, necrosis, and regressive alterations of the dental pulp.
2	The clinical and instrumental examination for the diagnosis in restorative dentistry
2	Biologic width and its importance in restorative dentistry
2	Designation of cavity surfaces, classification and preparation principles of Black cavity.
2	Cavity preparation, use, sterilization of the instruments in restorative dentistry
4	Evolution of principles, materials and techniques for sealing.
2	Etiopathogenesis and treatment of dentinal hypersensitivity.
2	Principles and techniques of enamel-dentinal adhesion.
2	Characteristics and techniques of conservative use of composites, compomers, glass ionomeric cement.
2	Dental dam.

**MODULE  
APPLIED MEDICAL TECHNICAL SCIENCES I**

*Prof. PIETRO TOZZO*

**SUGGESTED BIBLIOGRAPHY**

Materiale fornito dal docente al termine delle lezioni

<b>AMBIT</b>	10346-Scienze dell' igiene dentale
<b>INDIVIDUAL STUDY (Hrs)</b>	45
<b>COURSE ACTIVITY (Hrs)</b>	30

**EDUCATIONAL OBJECTIVES OF THE MODULE**

The aim of the module is to give to the student basic knowledge about technologies that are useful for diagnosis and follow up of diseases of the hard tissues of the oral cavity.

Furthermore, the student will acquire the ability to evaluate in terms of appropriateness of several devices or clinical investigation methods for the management of pathologies.

**SYLLABUS**

Hrs	Frontal teaching
4	Semeiotics of the oral cavity
8	Work positions. The dental examination: medical and dental history, extra-intra-oral examination (objectives, methods, sequence), photographic documentation. Compilation of the medical record.
6	Complementary instrumental and clinical examinations - Diagnostic for imaging. Endoral radiographic examinations. Radiographic status. Rinn assembly
2	Devices for halitosis diagnosis • Halimeter • Oral Chroma
4	How to read medical reports- Referral letter How to search bibliographic sources on the web. Knowledge of the principles and methods of EBD
6	Sealing and fluoroprophylaxis