



# UNIVERSITÀ DEGLI STUDI DI PALERMO

<b>DEPARTMENT</b>	Medicina di Precisione in area Medica, Chirurgica e Critica		
<b>ACADEMIC YEAR</b>	2019/2020		
<b>MASTER'S DEGREE (MSC)</b>	DENTISTRY		
<b>INTEGRATED COURSE</b>	ENDODONTICS AND RESTORATIVE DENTISTRY - INTEGRATED COURSE		
<b>CODE</b>	14241		
<b>MODULES</b>	Yes		
<b>NUMBER OF MODULES</b>	2		
<b>SCIENTIFIC SECTOR(S)</b>	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
	CUMBO ENZO MARIA GIUSEPPE	Ricercatore	Univ. di PALERMO
<b>CREDITS</b>	7		
<b>PROPAEDEUTICAL SUBJECTS</b>	17145 - CARIOLOGY, CONSERVATIVE DENTISTRY AND ENDODONTICS - INTEGRATED COURSE		
<b>MUTUALIZATION</b>			
<b>YEAR</b>	5		
<b>TERM (SEMESTER)</b>	1° semester		
<b>ATTENDANCE</b>	Mandatory		
<b>EVALUATION</b>	Out of 30		
<b>TEACHER OFFICE HOURS</b>	<b>CUMBO ENZO MARIA GIUSEPPE</b> Tuesday 09:00 11:00 Scienze Stomatologiche 1° piano  <b>SCARDINA GIUSEPPE ALESSANDRO</b> Wednesday 09:30 11:00 Plesso di odontostomatologia primo piano stanza Prof. Scardina		

<p><b>PREREQUISITES</b></p>	<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 histophyngosis) and of the immune response local and systemic;</li> <li>- knowledge of physico-chemical, merchandise and modes of use and conservation, in line with international directives and standards, of the dental materials used</li> </ul> <p>In restorative and endodontic treatment;</p> <ul style="list-style-type: none"> <li>- knowledge of the foundations of Mechanics, Dynamics, Thermodynamics, Rheology, Optics, Electrophysics, Radiation Physics, Radiation Protection and X-ray Techniques;</li> <li>- knowledge of the principles of prophylaxis of infectious diseases and cross - infection, of</li> </ul> <p>Disinfection and ergonomic sterilization of instrumentation;</p> <ul style="list-style-type: none"> <li>- knowledge of the principles of pharmacology and anesthesiology.</li> <li>- knowledge of the fundamentals of conservative dentistry and the principles of endodontics.</li> <li>- knowledge of the principles of the Medical and Surgical Clinic.</li> </ul>
<p><b>LEARNING OUTCOMES</b></p>	<p>At the end of the course, the student will have both anatomical notions about dental morphology including root anatomy and endodontic space as well as knowledge about pulp tissue and root tissue diseases. They should be able to diagnose, set up and maintain treatment plans. The student will be able to perform protocols for endodontic and periodontal endodontic disease adapted to individual patients.</p> <p>He will demonstrate how to carry out endodontic therapy plans even in " risk" patients, with the aim of restoring, in any case, morphologically and functionally, dental elements affected by pathology. The student should be able to evaluate clinical conditions of the patient and the congruity of the endodontic / conservative treatments. Also in this case, he will carry out the entire diagnostic program useful to formulate the appropriate therapeutic plan. 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 endodontic / conservative treatment proposed and the prevention strategies needed to take for other dental elements. The student will have to demonstrate the ability to learn the concepts taught throughout the course, showing the ability to link between them.</p>
<p><b>ASSESSMENT METHODS</b></p>	<p><b>TYPE OF TESTS</b></p> <p>1) Written test. It is for the restorative dentistry module: it aims to verify the actual knowledge of the topics contained in the prerequisites, as well as the pharmacology associated with the ongoing therapy.</p> <p>Minimum number of questions: the student will have to answer a minimum of three multiple-choice questions and / or three open questions. Duration of the test: minimum 40 minutes. The written test will have a positive or negative evaluation. A positive evaluation will allow the student to gain access to the oral test, on the contrary, a negative evaluation.</p> <p>Written test assessment: for each correct answer, the score is 1.5; for every wrong answer the score of 0.5 is deducted; for lack of response to a question the score is 0. In open questions, will be evaluated the correctness of content, the ability of synthesis and personal knowledge that arise from a critical and contemporary study of literature. A proportional method will be used from time to time in order to bring the score obtained in thirty-one: 1 to 17 vote: negative; from 18 to 30 results: positive.</p> <p>2) 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> <p>- Rating: 30 - 30 and L - Rating: Excellent - ECTS grades: Excellent (A - A +)</p> <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> <p>- Rating: 27 - 29 - Rating: Excellent - ECTS grades: Very good (B)</p> <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>

	<p>- Rating: 24 - 26 - Rating: Good - ECTS grades: Good (C) 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> <p>- Rating: 21 - 23 - Rating: Discreet - ECTS grades: Satisfactory (D) 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> <p>- Rating: 18 - 20 - Rating: Sufficient - ECTS grades: Sufficient E 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> <p>- Rating: 1 - 17 - Rating: Insufficient - ECTS grades: Fail (F). 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 ENDODONTICS II

*Prof. ENZO MARIA GIUSEPPE CUMBO*

### SUGGESTED BIBLIOGRAPHY

- Pagavino G., Pace R.: Volume 1: La lesione endodontica. Ed. SEE – Firenze, 2004  
 - Pagavino G., Pace R., Giachetti L. Volume 2: Urgenze in endodonzia. SEE – Firenze, 2004  
 - Somma F., Endodonzia, principi di base, procedure operative e tecniche. Masson - Milano, 2006  
 - Castellucci A.: Endodonzia clinica. Ed. Martina, Bologna  
 - Merlini C., Zerbinati A., Gallini G.: Chirurgia radicolare conservativa. Ed. Ist. Comunicazione Audiovisiva  
 - Appunti delle Lezioni, Articoli scientifici e Monografie forniti dal Docente.  
 Letture consigliate:  
 - Gallina G, Palmeri M, Cumbo E et al.: "Gli ultrasuoni per la preparazione dell' apice radicolare nelle otturazioni retrograde".  
 Atti XXIII° Congr. Naz.  
 S.I.O.C.M.F., Monduzzi Ed., vol. II, pp. 941-947, Bologna, 1992

<b>AMBIT</b>	50448-Discipline odontoiatriche e radiologiche
<b>INDIVIDUAL STUDY (Hrs)</b>	60
<b>COURSE ACTIVITY (Hrs)</b>	40

### EDUCATIONAL OBJECTIVES OF THE MODULE

Knowledge about the mechanism of pulp and periradicular diseases of endodontic origin. Endo periodontal relationships etiology. Knowledge of endodontic treatment and retreatment techniques. Knowledge of tools, materials, procedures, complications and fundamental techniques in endodontics. Knowledge about the etiology, prevention, diagnosis and treatment of dental trauma. Knowledge of necessary medications during endodontic treatment and retreatment. The student must also be able to accomplish endodontic treatments even on multi-rooted teeth, by the use of the main techniques.

The student, at the end of the course, must know how to diagnose, prevent pulp and periradicular diseases of endodontic origin. The student will also be able to shape, clean and dress properly root canals.

## SYLLABUS

Hrs	Frontal teaching
6	Root canal filling
3	Endodontic treatment for immature permanent teeth
3	Follow up
3	Endodontic complications
3	Endodontic treatment in a single session
5	Endodontic retreatment
4	Surgical endodontics
2	Dental trauma
3	Treatment planning in endodontics
2	Endodontic treatment and systemic diseases
3	Restoration of endodontically treated teeth
3	Relations between restorative, endodontics, periodontics, orthodontics and oral surgery.

## MODULE CONSERVATIVE DENTISTRY II

*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; - Moderni orientamenti per la restaurazione dentale. Anderlini G.; Martina Ed. Bologna - Odontoiatria Restaurativa. Procedure di trattamento e prospettive future. AA.VV.. Masson – Elseiver Ed. Milano - Il Restauro conservativo dei denti anteriori. Vanini L., Mangani F. et al.; ACME Ed. Viterbo. - MED Tutor Odontoiatria. Ottavo modulo. I restauri diretti in composito nei denti anteriori. Vanini L.; UTET Scienze Mediche Ed. Milanos - Scotti R., Ferrari M.: Perni in Fibra. Ed. Masson, Milano, 2004. - Ferrari M., Breschi L., Grandini S.: Fiber posts and endodontically treated teeth. MDM, South Africa - Shillenburg H.T., Kessler J.C.: La ricostruzione dei denti trattati endodonticamente - Appunti delle Lezioni, Articoli scientifici ricercati criticamente dallo studente nelle banche dati internazionali.

<b>AMBIT</b>	50448-Discipline odontoiatriche e radiologiche
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<b>INDIVIDUAL STUDY (Hrs)</b>	45
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<b>COURSE ACTIVITY (Hrs)</b>	30
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### EDUCATIONAL OBJECTIVES OF THE MODULE

This module covers the fundamental concepts in restorative dentistry. The student will have knowledge of: biologic width and its importance in restorative dentistry, restorative dentistry in endodontically treated teeth, evidence-based concepts and procedures for bonded inlays, onlays, overlays, the use of indirect veneers to rehabilitate patients, tooth bleaching, non-routine interventions, digital bonded restorative dentistry. the student will be able to shape an anterior and posterior tooth.

## SYLLABUS

Hrs	Frontal teaching
4	Biologic width and its importance in restorative dentistry
5	Restorative dentistry in endodontically treated teeth
4	Evidence-based concepts and procedures for bonded inlays, onlays, overlays
5	The use of indirect veneers to rehabilitate patients
4	Tooth bleaching
4	Non-routine interventions
4	Digital bonded restorative dentistry
Hrs	Practice
5	Esthetic rehabilitation of maxillary anterior teeth
5	Esthetic rehabilitation of posterior teeth