

REGULATION OF THE POSTGRADUATE SPECIALIZATION COURSE IN ORTHODONTICS

Article 1.º

Introduction

Orthodontics is one of the two areas of specialty in dentistry officially recognized and regulated at European level (Directive 2005/36/EC of the Council and the European Parliament of 7 September 2005). In Portugal, the application for the specialty exam must be preceded by a minimum theoretical and practical training in a university department or higher education unit, lasting at least three years and with prior recognition of suitability by the Portuguese Dental Board (Ordem dos Médicos Dentistas). The need for specialized training in this discipline of dentistry is internationally recognized, since both clinical experience and scientific evidence demonstrate that the acquisition of clinical competences in the field of orthodontics requires additional theoretical and practical education, carried out after completion of undergraduate studies, and should meet certain requirements and satisfy specific criteria.

Article 2.º

Scope of Application

These regulations apply to the Postgraduate Course in Specialization in Orthodontics at the Faculty of Dental Medicine of the University of Lisbon, hereinafter referred to as Course.

3.º

Course Objectives

1 — The Course's general objective is to educate and train dentists who are specialists in orthodontics, with a broad and solid base preparation and adequate clinical experience in the use of different treatment methods, in accordance with the recommendations of the "Final Report of the Erasmus Project for Postgraduate Courses in Orthodontics".

2 — During the course, special emphasis will be placed on the development of a scientific attitude and professional interest, a broad knowledge of the relevant biomedical sciences in orthodontics and research

methodology, the interpretation of scientific literature and research activities, as well as to the oral and written presentation of the results of clinical and research works.

- 3 — At the end of the course, the dentist graduating in orthodontics must be able to:
- Diagnose occlusion anomalies involving the dentition and the facial and functional structures;
 - Detect deviations in the development of the dentition and facial growth;
 - Assess the need for orthodontic treatment;
 - Formulate alternative treatment plans and the respective prognosis;
 - Conduct interceptive orthodontic treatments;
 - Perform simple and complex orthodontic treatment techniques;
 - Assess relevant psychological aspects in orthodontics;
 - Participate in interdisciplinary teams in the treatment of patients with functional and esthetic impairment, including the treatment of facial deformities and cleft lip and palate;
 - Exercise the specialty with a high standard of professional ethics;
 - Improve professional skills, using available opportunities.

4.º

Course Coordination

- 1 — The course is coordinated by a Coordinating Council made up of three to four professors from the Faculty of Dental Medicine of the University of Lisbon.
- 2 — The President of the Coordinating Council is a professor, specialist in Orthodontics by the Ordem dos Médicos Dentistas, appointed by the Scientific Council.
- 3 — The remaining members are also appointed by the Scientific Council, upon proposal by the President of the Coordinating Council.
- 4 - The duties of the Coordinating Council are:
- Define the selection criteria and proceed with the selection of candidates;
 - Propose the number of vacancies to be fixed and the deadlines for candidacy, registration and enrollment;
 - Coordinate the teaching of the curricular units contained in the study plan and carry out the respective assessment;
 - Propose amendments to this regulation.
- 5 - The attributions of the President of the Coordinating Council are:
- Represent the Coordinating Council;

- b) Convene and preside, with a casting vote, at the meetings of the Coordinating Council;
- c) Exercising, in urgent cases, the attributions of the Coordinating Council;
- d) Ensure the regularity of deliberations.

5.º

Number of Vacancies

- 1 — The Scientific Council of the Faculty of Dental Medicine sets the number of annual vacancies, upon proposal by the Coordinating Council.
- 2 — The course cannot work with a number of enrollments less than two.

6.º

Application Deadlines

The deadline for the submission of candidacies, registration and enrollment will be set, each year, by the Scientific Council, upon proposal by the Coordinating Council.

7.º

Tuition Fees

Enrollment and tuition fees are set by the Faculty Director, after consultation with the Course Coordinating Council.

8.º

Application and Registration Conditions

- 1 — Can apply for the Course:
 - a) Holders of a valid portuguese licentiate or integrated master's degree in dentistry;
 - b) Holders of a foreign higher academic degree that is recognized by the Scientific Council as meeting the objectives of one of the degrees referred to in the preceding paragraph for the purposes of further studies.

2 — The recognition referred to in subparagraph b) of number one of this article has the effect only of accessing the Course and does not confer equivalence to the degrees of licentiate or master's degree in dentistry, nor the recognition of these degrees.

3 — Candidates must attach the following documents to the application form:

- a) Certificate attesting to one of the degrees referred to in number one of this article;
- b) Curriculum Vitae;
- c) Photocopy of the identity card/citizen's card and other documentation required under the application regulations.

9.º

Selection Criteria

1 — The selection of candidates will be carried out by the Coordinating Council upon curriculum assessment, complemented by a written and/or practical test, if deemed necessary, and by an interview.

2 — The scientific and professional curriculum of the candidates will be taken into account in the curriculum assessment.

3 — During the interview, the candidates' motivations, scientific knowledge and time availability will be evaluated.

4 — The results will be published in order to allow the registration and enrollment of selected candidates within the deadlines defined by the Scientific Council.

10.º

Operating Conditions and Evaluation

1 — The Course is organized by the ECTS curricular credit system (European Credit Transfer System).

2 — The Course lasts for six semesters on a full-time basis.

3 — The total number of credits required to complete the Course is 180 ECTS.

4 — Approval in the Course is expressed in the range 10 to 20 of the full numerical scale from 0 to 20, as well as in its equivalent on the European scale of comparability of classifications.

5 — The final grade of the Course is the average calculated up to the hundredths and rounded to the units, of the grades obtained in the curricular units that comprise it, weighted by the respective number of credit units.

6 — Qualitative mentions of Excellent (18 to 20 points), Very Good (16 and 17 points), Good (14 and 15

points), Sufficient (10 to 13 points) and Fail (lower than 10 points) can be associated with the final classifications.

11.º

Study Plan and Curriculum Structure

1 — The syllabus includes formal instruction in a core of mandatory theoretical subjects including anatomy and embryology, growth and development, radiographic cephalometry, principles of biomechanics, biology of tooth movement, orthodontic biomaterials, physiology and pathophysiology of the stomatognathic system, temporo-mandibular dysfunction, orthodontic-surgical treatment, craniofacial anomalies and genetics, child, adolescent and adult psychology, ethics and management, diagnosis and treatment plan, and orthodontic technique, among others.

2 — In addition to the mandatory theoretical subjects, students will participate in the diagnosis and treatment of different types of occlusal and developmental anomalies in children and adults, including the interdisciplinary treatment of problems related to other areas of dentistry, the early treatment of skeletal anomalies during the mixed dentition period and the treatment of adults with skeletal, periodontal and temporomandibular disorders.

3 — The course requirements also include formal instruction (basic knowledge) in epidemiology, biostatistics and research methods, as well as the completion of an original research project, including a critical review of the literature, the formulation of hypotheses, statistical analysis, data interpretation and presentation of results in the form of a scientific article, capable of being published in a specialized journal.

4 — The curricular structure and the study plan are set out in Annex I to this regulation.

12.º

University Degree

1 — Approval in the Course is attested by a certificate of registration called Diploma, under the terms of the Portuguese Law.

2 — The diploma is accompanied by the respective diploma supplement and is issued by the Faculty of Dental Medicine of the University of Lisbon within a maximum period of 90 days after its request by the interested party.

13.º

Final Dispositions

- 1 — In everything that this regulation is silent, the provisions of the Portuguese Law and the Regulation for Postgraduate Studies of the University of Lisbon apply.
- 2 — This regulation enters into force after its publication in the Diário da República, applying from the 2016-2017 school year.
- 3 — The present regulation may be revised at any time by proposal of the Coordinating Council

ANNEX I

Curricular structure

- 1 — Predominant scientific area of the study cycle: Medical-Surgical Sciences.
- 2 — Number of credits, according to the European credit transfer and accumulation system, required to complete the course: 180
- 3 — Normal duration of the study cycle: 6 semesters
- 4 — Scientific areas and credits that must be gathered to obtain the diploma:

Scientific area	Initials	Credits	
		Mandatory	Optional
Surgical-Medical Sciences	CMC	153	-
Morphofunctional and Pathological Sciences	CMFP	12	-
Preventive and Conservative Dental Sciences	CDPC	9	-
Social Sciences, Humanities and Education	CSHE	4	-
Oral Rehabilitation Sciences	CRO	2	-
<i>Total</i>		180	-

Syllabus

1st Semester

Curricular Units	Scientific Area	Type	Working time (hours)		Credits	Comments
			Total	Contact		
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Anatomy of the Head.....	CMFP	Semester	56	24 — T:18; P:6	2	
Cephalometrics.....	CMC	Semester	84	36 — S:18; P:18	3	
Epidemiology	CDPC	Semester	28	15 — T:15	1	
Diagnostic Techniques.....	CMC	Semester	56	24 — TP:24	2	
Diagnosis and Treatment Planning.....	CMC	Semester	168	72 — TP:72	6	
Orthodontic Technique I.....	CMC	Semester	168	72 — TP:72	6	
Clinical Orthodontics I	CMC	Semester	280	260 — P:260	10	
<i>Total</i>			840	503	30	

2nd Semester

Curricular Units	Scientific Area	Type	Working time (hours)		Credits	Comments
			Total	Contact		
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Biostatistics.....	CDPC	Semester....	56	24 — T:18; P:6	2	
Human Growth and Development.....	CMC	Semester....	56	24 — S:24	2	
Facial Growth.....	CMC	Semester....	112	48 — T:12; S:36	4	
Cell and Molecular Biology.....	CMFP	Semester....	56	24 — T:12; S:12	2	
Biology of Tooth Movement and Orthopedics.....	CMC	Semester....	56	24 — T:6; S:18	2	
Orthodontic Biomechanics.....	CMC	Semester....	112	48 — T:12; S:36	4	
Orthodontic Technique II.....	CMC	Semester....	112	48 — TP:48	4	
Clinical Orthodontics II.....	CMC	Semester....	280	260 — P:260	10	
<i>Total.....</i>			840	500	30	

3rd Semester

Curricular Units	Scientific Area	Type	Working time (hours)		Credits	Comments
			Total	Contact		
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Embryology of the Head.....	CMFP	Semester....	56	24 — T:12; S:12	2	
Psychology of the Child, Adolescent and Adult....	CSHE	Semester....	56	24 — T:12; S:12	2	
Radiology and Imagiology.....	CMC	Semester....	56	24 — T:12; TP:12	2	
Development of the Dentition.....	CDC	Semester....	84	36 — T:12; S:24	3	
Iatrogenic Effects of Orthodontic Treatment.....	CMC	Semester....	56	24 — S:24	2	
Orthodontic Technique III.....	CMC	Semester....	168	72 — TP:36; S:36	6	
Evidence Based Dental Medicine.....	CDPC	Semester....	28	15 — T:15	1	
Literature Review I.....	CMC	Semester....	56	24 — S:24	2	
Clinical Orthodontics III.....	CMC	Semester....	280	260 — P:260	10	
<i>Total.....</i>			840	503	30	

3rd Semester

Curricular Units	Scientific Area	Type	Working time (hours)		Credits	Comments
			Total	Contact		
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Embryology of the Head	CMFP	Semester	56	24 — T:12; S:12	2	
Psychology of the Child, Adolescent and Adult	CSHE	Semester	56	24 — T:12; S:12	2	
Radiology and Imagiology	CMC	Semester	56	24 — T:12; TP:12	2	
Development of the Dentition	CDC	Semester	84	36 — T:12; S:24	3	
Iatrogenic Effects of Orthodontic Treatment	CMC	Semester	56	24 — S:24	2	
Orthodontic Technique III	CMC	Semester	168	72 — TP:36; S:36	6	
Orthodontic Technique IV	CMC	Semester	112	48 — TP:24; S:24	4	
Literature Review II	CMC	Semester	56	24 — S:24	2	
Clinical Orthodontics IV	CMC	Semester	280	260 — P:260	10	
<i>Total</i>						

4th Semester

Curricular Units	Scientific Area	Type	Working time (hours)		Credits	Comments
			Total	Contact		
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Physiology of Breathing, Speech, Swallowing and Mastication	CMC	Semester	56	24 — T:12; S:12	2	
Research Methodology	CDPC	Semester	84	36 — T:24; P:12	3	
Orthodontic Biomaterials	CRO	Semester	56	24 — T:12; S:12	2	
Aetiology of Malocclusion	CMC	Semester	56	24 — T:12; S:12	2	
Epidemiology in Orthodontic Research	CMC	Semester	56	24 — T:12; S:12	2	
Orthodontic-Surgical Treatment	CMC	Semester	84	36 — T:12; S:24	3	
Orthodontic Technique IV	CMC	Semester	112	48 — TP:24; S:24	4	
Literature Review II	CMC	Semester	56	24 — S:24	2	
Clinical Orthodontics IV	CMC	Semester	280	260 — P:260	10	
<i>Total</i>			840	500	30	

5th Semester

Curricular Units	Scientific Area	Type	Working time (hours)		Credits	Comments
			Total	Contact		
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Physiology and Physiopathology of the Stomatognathic System	CMFP	Semester	56	24 — T:12; S:12	2	
Analysis of Growth and Treatment	CMC	Semester	84	36 — TP:24; S:12	3	
Retention and Relapse	CMC	Semester	84	36 — TP:24; S:12	3	
Orthodontic-Periodontal Treatment	CDC	Semester	56	24 — T:12; S:12	2	
Serial Extractions	CMC	Semester	56	24 — T:12; S:12	2	
Cranio-mandibular Disfunction	CMFP	Semester	56	24 — T:8; S:16	2	
Literature Review III	CMC	Semester	56	24 — S:24	2	
Clinical Orthodontics V	CMC	Semester	280	260 — P:260	10	
Research Project I	CMC	Semester	112	48 — P:48	4	
<i>Total</i>			840	500	30	

6th Semester

Curricular Units	Scientific Area	Type	Working time (hours)		Credits	Comments
			Total	Contact		
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Genetics	CMFP	Semester	56	24 — T:12; S:12	2	
Craniofacial Syndromes	CMC	Semester	56	24 — T:12; S:12	2	
Cleft Palate Treatment	CMC	Semester	56	24 — T:12; S:12	2	
Orthodontic-Restorative Treatment	CMC	Semester	56	24 — T:12; S:12	2	
Adult Orthodontics	CMC	Semester	56	24 — T:12; S:12	2	
Health, Hygiene and Safety	CDPC	Semester	56	24 — T:12; S:12	2	
Ethics, Legislation and Office Management	CSHE	Semester	56	24 — T:12; S:12	2	
Literature Review IV	CMC	Semester	56	24 — S:24	2	
Clinical Orthodontics VI	CMC	Semester	280	260 — P:260	10	
Research Project II	CMC	Semester	112	48 — P:48	4	
<i>Total</i>			840	500	30	

