

# REGULATION

## Postgraduate Program in Digital Technologies for Dental Technicians

### Article 1

#### Introduction

The aim of this Post-Graduate Course is the training of dental technicians enabling them to have a comprehensive approach to different types of prosthesis, fixed and removable, using different CAD/CAM systems.

### Article 2

#### Scope of application

The present regulation applies to the Post-graduate Course in Digital Technologies for Dental Technicians, a non-degree course of the Dentistry School of the University of Lisbon (FMDUL), hereinafter referred to as Course.

### Article 3

#### Aims and objectives

1. The Course aims to provide:

- a) To Know the basic scientific literature about the rehabilitation over teeth and over implants.
- b) To Know the different implant systems and the chirurgical and rehabilitation basic procedures.
- c) To understand and plan the basis of oral rehabilitation of single and multiple restorations trough digital tools.
- d) To plan pre-chirurgical preparations for implants
- e) To Analyse the different prosthesis solutions in each clinical case and selective the analogical or digital solution for rehabilitation.
- f) To do the different prosthetic solutions to rehabilitate a patient applying the digital technology available.
- g) To know the different CAD/CAM systems and to plan and design different kind of dental prosthesis depending on materials and softwares.
- h) To Know the addictive 3D impression technology and how to use it on Dental Prosthesis

i) To do ceramic work over different substructures materials as well as monolithic ceramic work.

j) Dsfdsfds

k) To learn how to make presentations in order to share knowledge

l) To motivate the student to the need of lifelong learning

; h); j) Garantir competências relacionadas com a metodologia de investigação, incentivando à produção científica em áreas de ciências básicas e de laboratório relacionadas com a prótese dentária, as tecnologias CAD -CAM e materiais dentários;

#### **Article 4**

##### **Course Coordination**

1. The Course is coordinated by a Coordinating Council. This Council is composed by 3 teachers of the FMDUL.
2. The President of the Coordinating Council is a teacher, designated by the Scientific Council of the FMDUL
3. The other two teachers are also designated by the Scientific Council under the President of the Coordinating Council opinion
4. The duties of the Coordinating Council are:
  - a) Proceed with the selection of candidates;
  - b) Propose the number of vacancies to be fixed and the application, enrollment and deadlines;
  - c) Coordinate the teaching of the curricular units included in the study plan and the respective assessment;
  - d) Propose amendments to the present regulation;
4. The duties of the President of the Coordinating Council are:
  - a) Represent the Coordinating Council;
  - b) Convene and chair, with the casting vote, the meetings of the Coordinating Council;
  - c) Exercise the duties of the Coordinating Council in urgent cases;
  - d) Ensure the regularity of deliberations.

#### **Article 5**

##### **Number of vacancies**

1. The Scientific Council of the FMDUL sets the number of vacancies per year, after hearing the Course Coordinating Council.
2. The Course cannot work with less than six students.

### **Article 6**

#### **Deadlines**

1. The deadline for the submission of applications, registration and enrollment will be fixed by the Scientific Council, after hearing the Coordinating Council.

### **Article 7**

#### **Tuition fees**

1. Registration and tuition fees are set annually by the Director of the FMDUL

### **Article 8**

#### **Registration conditions**

1. Can apply for the Course:
  - a) Holders of a Dental Technology Degree.
  - b) Holders of a foreign higher-education degree that is recognized by the Scientific Council of FMDUL.
2. Candidates must submit the following documents to the application form:
  - a) Certificate proving one of the degrees referred to in paragraph 1;
  - b) Curriculum Vitae;
  - c) Copy of the Identification document;
  - d) Letter(s) of recommendation;
  - e) Letter of motivation.

### **Article 9**

#### **Selection Criteria**

1. The selection of candidates will be made by the Coordinating Council through curricular appraisal and by carrying out an interview with the candidate.

a) The academic, scientific, and professional training of the candidates will be considered in the curricular appraisal.

b) During the interview, the candidates' motivations, scientific knowledge, and availability to dedicate themselves to the Course will be assessed.

2- The results will be published to allow the registration and enrollment of the selected candidates within the deadlines defined by the Postgraduate Studies Commission.

## **Article 10**

### **Organization and Assessment**

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

2. The course has a normal duration of 4 semesters, on a part-time basis.

3. The total number of credits required to complete the Course is 120 ECTS.

4. Course approval is expressed in the range 10-20 of the full scale from 0 to 20, as well as in its equivalent in the European scale of comparability of ratings.

5. The final classification of the Course is the mean, weighted by the respective number of credit units, of the classifications obtained in the curricular units.

6. Qualitative mentions of Excellent (18 to 20), Very Good (16 and 17), Good (14 and 15), Sufficient (10 to 13) and Fail (less than 10) may be associated with the final classification's values.

## **Article 11**

### **Curriculum structure and study plan**

1. The Course integrates seminars, laboratory classes, teaching support and scientific activities.

2. The curricular structure and the study plan are included in Annex I.

## **Article 12**

### **Diploma**

1. Approval in the Course is attested by a certificate of registration called Diploma, under the terms of Decree-Law no. 65/2018 from August 16<sup>th</sup>.

2. The Diploma and its supplement are passed by FMDUL, within a maximum period of 90 days, after its request by the interested person.

## **Article 13**

### **Final dispositions**

1. In all that this regulation is omitted, the provisions of Decree-Law no. 65/2018 (16th august) and in the Regulation of Postgraduate Studies of the University of Lisbon.

2. 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: Dental Technology
- 2 - Number of credits, according to the European credit transfer and accumulation system, required to complete the course: 120 ECTS
- 3 - Normal duration of the study cycle: 4 semesters
- 4 - Scientific areas and credits that must be gathered to obtain the diploma:

SCIENTIFIC AREA	INITIALS	CREDITS	
		REQUIRED	OPTIONAL
Dental Technology	CPD	91	-
Oral Rehabilitation	CRO	10	-
Conservative and Preventive Dentistry	CDPC	11	-
Medical-Chirurgical	CMC	4	-
Education, Social and Humanities	CSHE	4	-
<b>TOTAL</b>		<b>120</b>	<b>0</b>

## Study Plan

### 1<sup>st</sup> Semester

CURRICULAR SUBJECT (1)	TYPE (2)	TIME OF WORK (HOURS)		ECTS (5)
		TOTAL (3)	CONTACT HOURS (4)	
Dental Technology Lab I	Semester	280	181 – PL:181	10
CAD-CAM Technology	Semester	112	15 – T:15	4
CAD I	Semester	112	15 – TP:15	4
Evidence based Dental Medicine	Semester	112	15 – T:15	4
Oral Rehabilitation	Semester	112	50 – T:30; S:20	4
Implantology	Semester	112	24- T:15; S:9	4
<b>TOTAL</b>		<b>840</b>	<b>300</b>	<b>30</b>

## 2<sup>nd</sup> Semester

CURRICULAR SUBJECT	TYPE	TIME OF WORK (HOURS)		ECTS
		TOTAL	CONTACT HOURS	
Dental Technology Lab II	Semester	280	189 – PL:189	10
Literature Review I	Semester	56	15- T:15	2
Research Methodology	Semester	84	15- T:15	3
Biostatistics	Semester	112	15 – T:15	4
Occlusion and Temporomandibular Dysfunction	Semester	84	15 – T:15	3
Dental Photography	Semester	28	6 – T:2:S:4	1
CAD II	Semester	112	15- TP:15	4
Digital Oral Rehabilitation	Semester	84	5- T: 25	3
	<b>TOTAL</b>	<b>840</b>	<b>300</b>	<b>30</b>

## 3<sup>rd</sup> Semester

CURRICULAR SUBJECT	TYPE	TIME OF WORK (HOURS)		ECTS
		TOTAL	CONTACTO	
Dental Technology Lab III	Semester	280	220- PL: 220	10
Discussion and Planning Dental Lab Cases	Semester	112	15-- S:15	4
Literature Review II	Semester	56	15- T:15	2
CAD-CAM Materials	Semester	112	20 – T:15; S:5	4
Health Business	Semester	112	15 – T:15	4
Final work Supervision	Semester	168	15 – OT:15	6
	<b>TOTAL</b>	<b>840</b>	<b>300</b>	<b>30</b>

## 4<sup>th</sup> Semester

CURRICULAR SUBJECT	TYPE	TIME OF WORK (HOURS)		ECTS
		TOTAL	CONTACTO	
Dental Technology Lab IV	Semester	560	220- PL: 220	20
Final Work	Semester	280	80- OT: 80	10
	<b>TOTAL</b>	<b>840</b>	<b>300</b>	<b>30</b>

(1) Designation of the Curricular Unit.

(2) Indicate the type of Curricular Unit (annual, semester or quarter).

(3) At UL, total hours are equal to the number of credits multiplied by 28.

(4) Indicate for each type: (T - theoretical teaching; TP - theoretical-practical; PL - practical and laboratory; TC - fieldwork; S - seminar; E - internship; OT - tutorial guidance; O - others) the number of total hours (eg T - 15; PL: 30).

(5) Number of credit