



POLYTECHNIC OF COIMBRA



COLLEGE OF HEALTH TECHNOLOGY OF COIMBRA

Diploma Supplement

This Diploma Supplement follows the model developed by the European Commission, Council of Europe and UNESCO/CEPES. The purpose of the supplement is to provide sufficient independent data to improve the international "transparency" and fair academic and professional recognition of qualifications (diplomas, degrees, certificates, etc.). It is designed to provide a description of the nature, level, context, content and status of the studies that were pursued and successfully completed by the individual named on the original qualification to which this supplement is appended. It should be free from any value-judgements.

1. INFORMATION IDENTIFYING THE HOLDER OF THE QUALIFICATION:

1.1. Family name (s):

Pires

1.2. Given name (s):

Filipa Simões

1.3. Date of birth (year / month / day):

09-02-1991

1.4. Student identification number or code (if available) and national identity card number:

Student number: 200900196

Number of identification document: 13889496

2. INFORMATION IDENTIFYING THE QUALIFICATION:

2.1. Name of qualification and (if applicable) title conferred (in original language):

Degree in Radiology

Graduated

2.2. Main field(s) of study for the qualification:

Radiology

2.3. Name and status of awarding institution (in original language):

Escola Superior de Tecnologia da Saúde de Coimbra – instituição de ensino superior público (public higher education institution)

2.4. Name and type of institution (if different from 2.3) administering studies (in original language):

2.5. Language(s) of instruction / examination:

Portuguese

3. INFORMATION ON THE LEVEL OF THE QUALIFICATION:

3.1. Level of qualification:

Polytechnic Higher Education - Degree - Level VI

3.2. Official length of programme:

6364 Hours / 8 Semester / 4 Academics years / 240 ECTS

3.3. Access requirement (s):

National Competition for Access to Higher Education

4. INFORMATION ON THE CONTENT AND RESULTS GAINED:

4.1. Mode of studies:

Working schedule

Full-time

4.2. Programme requirements:

The degree in Radiology will provide the student with the skills necessary to "carry out all tests in the area of medical diagnostic radiology, programming, implementation and evaluation of all radiological techniques involved in prevention and health promotion", Decree-Law No. 564/99 of 21 of December.

In this context, the student should acquire a set of competences that will enable him to put into practice the profession.

The profile of general competences to acquire assumes the current international and national references, including the proposals of the International Society of Radiographers and Radiological Technologists (ISRRT) of The Quality Assurance Agency for Higher Education (QAHE) and the Portuguese Association of Technical Radiology, Radiotherapy and Nuclear Medicine (ATARP).

The graduate in Radiology should be able to:

- make appropriate clinical decisions based on knowledge of anatomy, physiology, pathology and radiological science;
- evaluate the information conveyed in the referral to justify the conduct of examinations;
- plan and perform the complete radiologic examination covering all aspects of the care needs of patients/clients in the clinical context;
- assume responsibility for the protection against radiations of patients/clients and other health care professionals in the surrounding area;
- monitor the application of information technology, processing, storage, search and processing of radiological data;
- emit rigorous comments and feedback to help in the diagnosis of patients' pathologies;
- evaluate the resulting images of the radiological examinations respecting the expected clinical outcomes;
- capitalize on the opportunities for clinical education that may possibly arise during the normal course of his activity;
- monitor and evaluate the quality of the functioning of radiological equipment;
- demonstrate the exercise of a weighted practice in the presence of solid clinical and scientific knowledge and the understanding of the holistic needs of patients from different clinical and social contexts;
- understand the importance of professional regulation, the legal responsibilities and the ethical aspects of professional self-regulation;
- respect the need to preserve the integrity of the profession by not questioning the reputation of it;
- demonstrate integrity in public and private issues;
- establish and maintain professional working relationships with other staff or experts involved in treatment and care of patients/clients;
- identify and perform the most appropriate radiologic examination to the diagnosis of each patient;
- recognize and meet the physical, psychological and social needs of patients as they are made clear during the radiological examinations;
- recognize and properly inform other health professionals on pathological aspects, aberrant and abnormal on radiological images;
- maintain the competence through a professional development sustained on formation throughout life;
- recognize the value of research and other academic activities for the development of the profession;
- contribute to the planning and organization of services and radiology rooms;
- coordinate and participate in the elaboration of quality programs and quality control;
- identify and administer contrast media and drugs used in radiologic examination and act in the situations of emergency resuscitation, within applicable laws and regulations;
- understand the legislative, political, ethical and research frameworks that support, inform and influence the professional practice;
- understand the philosophy behind the development of the profession and professional

practice;

- understand the developments and current trends of radiological science and practice.

Scientific area	ECTS
Radiological Sciences	169
Biological Sciences	26
Exact Sciences	22
Social and Humanities Sciences	8
Medical Sciences	6
Laboratory Sciences and Clinical Analysis	4
Pharmacy	3
Engineering	2

4.3. Programme details (e.g. modules or units studied) and the individual grades / marks / credits obtained (if this information is available on an official transcript this should be used here):

Course	Period	Academic year	Grade	Grade in detail	ECTS	EGS
Mathematics	1 ^o semester	2009-10	18	eighteen	4	A
Introduction to Radiology	1 ^o semester	2009-10	15	fifteen	3	D
Health Care in Radiology	1 ^o semester	2009-10	13	thirteen	3	D
Psyco-sociology	1 ^o semester	2009-10	18	eighteen	2	A
Descriptive and Topographic Anatomy I	1 ^o semester	2009-10	13	thirteen	7	B
Cytology and Histology	1 ^o semester	2009-10	13	thirteen	4	C
Equipment and Instrumentation in Radiology	1 ^o semester	2009-10	16	sixteen	3	B
Atomic and Nuclear Physics	1 ^o semester	2009-10	15	fifteen	4	A
Descriptive and Topographic Anatomy II	2 ^o semester	2009-10	14	fourteen	7	B
Health Psychology	2 ^o semester	2009-10	12	twelve	3	D
Physiology I	2 ^o semester	2009-10	16	sixteen	4	B
Statistics	2 ^o semester	2009-10	15	fifteen	3	B
General Biochemistry	2 ^o semester	2009-10	14	fourteen	4	A
Biophysics	2 ^o semester	2009-10	14	fourteen	4	C
Bioethics and Deontology	2 ^o semester	2009-10	11	eleven	3	D
Professional Integration	2 ^o semester	2009-10	16	sixteen	2	A
Pathology I	1 ^o semester	2010-11	14	fourteen	3	B
Radiological Methods and Techniques I	1 ^o semester	2010-11	15	fifteen	6	B
Physiology II	1 ^o semester	2010-11	12	twelve	4	D
Radiation Physics	1 ^o semester	2010-11	15	fifteen	4	B
Pharmacotherapy	1 ^o semester	2010-11	14	fourteen	3	C
Radiological Anatomy I	1 ^o semester	2010-11	15	fifteen	6	B
Clinical Practice I	1 ^o semester	2010-11	15	fifteen	4	C
Pathology II	2 ^o semester	2010-11	13	thirteen	3	C
Radiological Methods and Techniques II	2 ^o semester	2010-11	17	seventeen	6	A
Radiological Anatomy II	2 ^o semester	2010-11	17	seventeen	6	A
Clinical Practice II	2 ^o semester	2010-11	17	seventeen	4	A
Imaging Processing and Quality Control	2 ^o semester	2010-11	16	sixteen	4	B
Radiological Protection	2 ^o semester	2010-11	14	fourteen	4	B
Research Methodologies	2 ^o semester	2010-11	14	fourteen	3	C
Musculoskeletal Radiology	1 ^o semester	2011-12	15	fifteen	6	B
Neuroradiology	1 ^o semester	2011-12	17	seventeen	6	A
Ultrasound I	1 ^o semester	2011-12	15	fifteen	4	B
Pediatric Radiology	1 ^o semester	2011-12	16	sixteen	5	A
Planing and Management in Radiology Services	1 ^o semester	2011-12	14	fourteen	4	C
Information Systems in Radiology	1 ^o semester	2011-12	18	eighteen	2	B
Radiology Semiotics I	1 ^o semester	2011-12	15	fifteen	4	B
Clinical Placements in Radiology I	2 ^o semester	2011-12	19	nineteen	5	B
Ultrasound II	2 ^o semester	2011-12	15	fifteen	4	C
Radiology Research I	2 ^o semester	2011-12	19	nineteen	4	A
Abdominal and Pelvic Radiology	2 ^o semester	2011-12	16	sixteen	6	B
Radiology Semiotics II	2 ^o semester	2011-12	16	sixteen	4	B
Heart and Chest Radiology	2 ^o semester	2011-12	16	sixteen	6	B
Clinical Placements in Radiology II	Annual	2012-13	17	seventeen	55	B
Radiology Research II	Annual	2012-13	18	eighteen	5	B

4.4. Grading scheme and (if available) grade distribution guidance:

To obtain approval for each subject it is required a minimum grade of 10 points on a scale of 0 to 20. The final grade of the course is rounded and results of the weighted arithmetic average, by its respective weight in ECTS, of the grades obtained in each of the UC from the study plan. It is considered the distribution of final grades of the three most recent years.

EGS - European Grading Scale	Grades	%
A	[20 - 16]	10
B	[15]	25
C	[14]	30
D	[13]	25
E	[12 - 11]	10

4.5. Overall classification of the qualification (in *original language*):

Concluded with 16 (sixteen) and A in European Grading Scale (EGS)

5. INFORMATION ON THE FUNCTION OF THE QUALIFICATION:

5.1. Access to further study:

The graduate degree allows the application to postgraduate studies, as described in paragraph 8

5.2. Professional status (if applicable):

The completion of the degree's syllabus on Radiology entitles the admission to the profession of Radiology technician regulated by Decree-Law 320/99 of 11 of August. The professional card shall be required to the Ministry of Health through the CAHS (Central Administration of the Health System).

6. ADDITIONAL INFORMATION:

6.1. Additional information:

Participated in workshops "Independent Worker: Obligations to fulfill" and "New schemes contracting health technology."

Additional information
Participated in the Erasmus mobility programme at the University College Lillebaelt - Danmark from 01/01/2013 a 01/04/2013.

Additional information	From	To
Participated in the "Week of Applied Sciences in Health"	03-2011	04-2011
Participated in the "Week of Applied Sciences in Health"	04-2010	04-2010
Participated in the "Week of Applied Sciences in Health"	04-2012	04-2012
Participated in the "Week of Applied Sciences in Health"	04-2013	04-2013

6.2. Further information sources:

- <http://www.ipc.pt> - <http://www.estescoimbra.pt>

7. CERTIFICATION OF THE SUPPLEMENT:

Institution administering studies (in *original language*):

Escola Superior de Tecnologia da Saúde de Coimbra

7.1. Date:

03-03-2014

7.2. Signature:



7.3. Capacity:

7.4. Official stamp or seal

Vice-Presidente da Escola Superior de Tecnologia
da Saúde de Coimbra

8. INFORMATION ON THE PORTUGUESE HIGHER EDUCATION SYSTEM:

The Framework Law on the Education System (Law nr. 46/86, dated 14 October 1986, further amended by Laws nr. 115/97, dated 19 September and nr. 49/2005, dated 30 August) establishes the general legal framework of the Education System.

According to this Law, the educational system comprises three levels: basic, secondary and higher education.

Pre-school education is optional and is for children between the ages of three and the age of entering basic education.

Basic Education is universal, compulsory and free and comprises three cycles, the first cycle lasts for four years, the second lasts for two years and the third lasts for three years.

Secondary education is compulsory and it comprises a three year cycle (corresponding to 10th, 11th and 12th year of schooling).

HIGHER EDUCATION STRUCTURE

The first steps towards the legal reform of the system of higher education were made in 2005, with the introduction of the new credit system (ECTS) for the cycles of study, mobility mechanisms, diploma supplement, amongst others.

Changes were also made to the Basic Law for the Education System in order to implement the Bologna Process.

The new structure divided into three cycles of studies was created in 2006 and it was completely implemented in Portugal in 2009/2010. Generic qualification descriptors were also defined for each of the cycles of studies, based on acquired competences, as well as the structure for the first and second cycles of study in terms of typical ECTS intervals.

Portuguese higher education includes university and polytechnic education. University education is offered by public and private university institutions while polytechnic education is offered by public and private non-university institutions. Private higher education institutions must be subject to the previous recognition of the Ministry of Education and Science. The higher education system comprises also a concordatory institution.

Licenciado degree

Both university and polytechnic institutions confer the degree of licenciado (bachelor). In polytechnic education, the cycle of studies that leads to the degree of licenciado has 180 credits and a normal length of six curricular semesters of students' work. In certain cases namely those covered by internal legislation or by European legislation, the cycle of studies can have up to 240 credits with a normal length of up to seven or eight curricular semesters of students' work.

In university education, the cycle of studies that leads to the degree of licenciado has from 180 to 240 credits and a normal length between six to eight curricular semesters of students' work.

In the first cycle of studies the degree of licenciado is conferred, by universities or polytechnics institutions, to those that, after concluding all the curricular units that integrate the study programme of the licenciatura course, have obtained the established number of credits.

Mestre degree

Both university and polytechnic institutions confer the degree of mestre (master). The cycle of studies that leads to the degree of mestre has from 90 to 120 credits and a normal length of between three to four curricular semesters of students' work or in exceptional circumstances, 60 credits and a duration of two semesters, resulting from a stable and consolidated practice in that specific field at international level.

In polytechnic education, the cycle of studies that leads to the mestre degree must ensure predominantly that the student acquires a professional specialization. In university education, the cycle of studies that leads to the mestre degree must ensure that the student acquires an academic specialization resorting to research, innovation or expansion of professional competences. In university education, the mestre degree may also be conferred after an integrated cycle of studies, with 300 to 360 credits and a normal length of 10 to 12 curricular semesters of students' work, in cases for which the access to the practice of a certain professional activity depends on that length of time established by legal EU standards or resulting from a stable practice consolidated in the European Union. In this cycle of studies the degree of licenciado is conferred to those who have obtained 180 credits corresponding to the first six semesters of work.

The degree of mestre is conferred to those that, after concluding all the curricular units that integrate the study programme of the mestrado course, have obtained the established number of credits, as well as successfully defended in public their dissertation, their project work or their traineeship report.

Doutor degree

The Doutor (doctor) degree is conferred by universities and university institutes. The degree of Doutor is conferred to those that, after concluding all the curricular units that integrate the study programme of the Doutoramento (doctorate)

course, when applicable, and have successfully defended their thesis in the public act.

ACCESS CONDITIONS

General regime to accede to higher education

National and foreign students wishing to apply through the general regime to the first cycle of studies, must fulfil the following conditions:

- Have successfully completed a secondary course or a national or foreign qualification legally equivalent;
- Have set for the entrance examinations required for the degree programme the student wishes to attend and get the minimal mark required (there are higher education institutions that accept foreign tests or exams);
- Have fulfilled the prerequisites for the higher education course the student wishes to attend, if required.

Special conditions

Besides the regime geral (general regime), there are special conditions for top level athletes, Portuguese citizens on an official mission abroad, national or foreign staff in diplomatic mission, permanent staff of the Portuguese Armed Forces and scholarship holders within the framework of cooperation agreements signed by Portugal.

Special Competitions

Besides the general regime and the special conditions there are also special competitions for applicants with certain specific qualifications thus allowing new publics to accede to higher education in a perspective of lifelong learning, namely:

- applicants over 23 years old who have passed a especial exam for assessing their capacity to accede to higher education;
- holders of a specialization technological course (non higher education post-secondary course).

Admission to higher education institutions is subject to *numerus clausus*

Admission to the second cycle of studies

Those who meet the following conditions may apply to the cycle of studies that leads to the mestre degree:

- Holders of the licenciado degree or legal equivalent;
- Holders of a foreign academic degree duly recognized as satisfying the objectives identical to the licenciado degree by the competent scientific body of the higher education institution where one wishes to be admitted;
- Holders of an academic, scientific or professional curriculum vitae that is recognized as attesting the capacity to carry out this cycle of studies by the statutorily competent scientific body of the higher education institution to which they wish to be admitted.

Admission to the third cycle of studies

Those who meet the following conditions may apply to the cycle of studies that leads to the doutor (doctor) degree:

- Holders of the mestre (master) degree or legal equivalent;
- Holders of a licenciado degree who have a particularly relevant academic or scientific curriculum vitae that is recognized as attesting the capacity to carry out this cycle of studies by the statutorily competent scientific body of the higher education institution to which they wish to be admitted.
- Holders of an academic, scientific or professional curriculum vitae that is recognized as attesting the capacity to carry out this cycle of studies by the statutorily competent scientific body of the higher education institution to which they wish to be admitted.

CLASSIFICATION SYSTEM

The degrees of licenciado and mestre shall have a final classification between 10 and 20 on a numerical scale of 0 to 20, as well as its equivalent in the European scale of comparability of classifications.

The academic degree of doutor is assigned a final classification pursuant to the regulating standards approved by the university that confers it.

**DIAGRAM OF THE PORTUGUESE HIGHER EDUCATION SYSTEM
ACCORDING TO BOLOGNA**

(*) Except when in order to exercise a certain professional activity requiring education and training rating between 210 and 240 ECTS.

(**) In exceptional circumstances, and subject to the fulfilment of every requirement relating to the definition of the objectives of the degree and the conditions for acquiring the latter, a cycle of studies leading to a *Mestre* degree in a specialized field may amount 60 credits resulting from a stable and consolidated practice in that specific field at international level.

(***) A *Mestre* degree may also be granted following an integrated cycle of studies of which the duration, for the purposes of obtaining access to a professional activity: a) is established by European Union regulations; and b) results from a regular and consolidated practice within the European Union; in such cases, a *Licenciado* degree is granted to students having obtained 180 ECTS (3 years, 6 semesters).

