



# 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, equivalence statements or suggestions about recognition. Information in all eight sections should be provided. Where information is not provided, an explanation should give the reason why.

## 1 INFORMATION IDENTIFYING THE HOLDER OF THE QUALIFICATION

1.1 Family name(s): **(apelido)**

1.2 Given name(s): **(nome do aluno)**

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

1.4 Student identification code: **(cod aluno)**

Citizen Card number (ID): **(identificação)**

## 2 INFORMATION IDENTIFYING THE QUALIFICATION

2.1 Name of qualification and title conferred:  
**Licenciatura em Engenharia Civil (Licenciado)**  
**Transl. Bachelor Degree in Civil Engineering, Bachelor**

2.2 Main fields(s) of study for the qualification:  
**Structures, Building Geotechnics and Foundations**

2.3 Name and status of awarding institution:

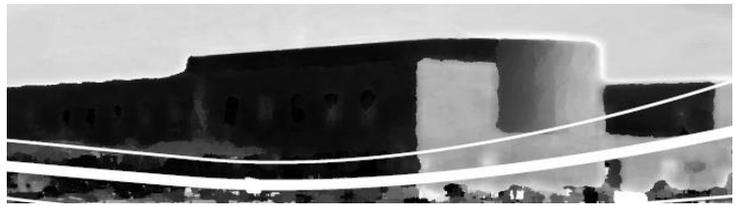
Instituto Politécnico de Tomar  
Public Higher Education Establishment created in 1996 by  
Decree-Law No. 96/96, published in the Official Journal of the  
Republic Series I-A, No.164 of July 17,1996.

2.4 Name and type of institution (if different from 2.3)  
administering studies:

Escola Superior de Tecnologia de Tomar  
of the Instituto Politécnico de Tomar

2.5 Language(s) of instruction/examination:  
**Portuguese**





### 3 INFORMATION ON THE LEVEL OF THE QUALIFICATION

#### 3.1 Level of qualification:

**Bachelor Degree in Civil Engineering**

Level-6 Classification of EQF (European Qualifications Framework)

#### 3.2 Official length of programme:

3 Years, 6 Semesters, 180 ECTS, 40 full-time weeks

#### 3.3 Access requirements(s):

Candidates may access the degree through the General Application for Admission to Higher Education, special admission, re-enrolment and programme change and transfer schemes. The General Application for Admission to Higher Education requires compliance with the provisions in section 8.

### 4 INFORMATION ON THE CONTENTS AND RESULTS GAINED

#### 4.1 Mode of study:

Full-time

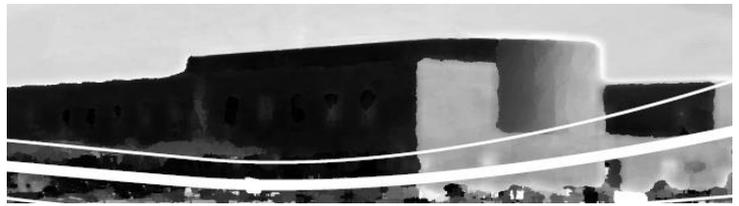
#### 4.2 PROGRAMME REQUIREMENTS:

The areas of responsibility of graduates in civil engineering include a wide range of fields such as structures, foundations, materials, construction processes, buildings, worksite management, water resources, hydraulics and roads within an environmentally sustainable perspective. In any of these domains graduates in civil engineering can perform their activity as promoters/contractors; as designers studying, designing and detailing construction works; as executors in charge of civil construction works; as inspectors ensuring quality execution of projects and as maintenance technicians of buildings and facilities. They can also engage in training and research activities.

**ECTS Distribution per field of study**

FIELD OF STUDY	ABBREV.	ECTS	
		COMPULSORY	OPTIONAL
Mathematics	MAT	27	-
Physics	FIS	5	-
General and Analytical Chemistry	QGA	4	-
Structures	EST	43	-
Building	C	32	-
Geotechnics and Foundations	GF	30	-
Planning	P	10	-
Hydraulics	H	19	-
Drawing	D	10	-
<b>Total</b>		<b>180</b>	





## COURSE CURRICULUM

### Year 1

Course Unit	Field of Study	Duration	Workload						ECTS
			TOTAL	T	TP	PL	OT	O	
Mathematical Analysis I	MAT	1 <sup>st</sup> Sem.	160	30	30	-	5	-	6
Linear Algebra	MAT	1 <sup>st</sup> Sem.	133	30	30	-	5	-	5
Chemistry	QGA	1 <sup>st</sup> Sem.	110	15	-	30	15	-	4
Physics	FIS	1 <sup>st</sup> Sem.	139	30	30	-	15	-	5
Applied Mechanics	EST	1 <sup>st</sup> Sem.	134	30	-	30	10	4	5
Building Materials I	C	1 <sup>st</sup> Sem.	134	15	45	-	15	-	5
Mathematical Analysis II	MAT	2 <sup>nd</sup> Sem.	157	30	30	-	5	-	6
Statistics	MAT	2 <sup>nd</sup> Sem.	131	15	30	-	5	-	5
Continuum Mechanics	EST	2 <sup>nd</sup> Sem.	111	30	-	30	-	12	4
Strength of Materials I	EST	2 <sup>nd</sup> Sem.	135	30	-	30	-	6	5
Applied Geology	GF	2 <sup>nd</sup> Sem.	138	30	-	30	-	15	5
Building Materials I	C	2 <sup>nd</sup> Sem.	138	30	-	30	10	5	5

### Year 2

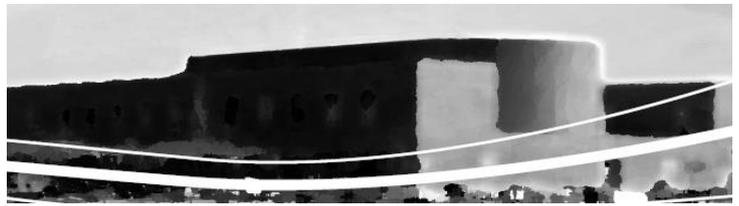
Course Unit	Field of Study	Duration	Workload						ECTS
			TOTAL	T	TP	PL	OT	O	
Mathematical Analysis III	MAT	1 <sup>st</sup> Sem.	140	30	30	-	5	-	5
General Construction Processes I	C	1 <sup>st</sup> Sem.	134	30	30	-	15	-	5
Strength of Materials II	EST	1 <sup>st</sup> Sem.	133	30	-	30	-	6	5
Hydraulics I	H	1 <sup>st</sup> Sem.	129	30	-	30	-	5	5
Soil Mechanics I	GF	1 <sup>st</sup> Sem.	145	30	-	30	-	7	5
Technical Drawing	D	1 <sup>st</sup> Sem.	129	-	60	-	-	5	5
Surveying	GF	2 <sup>nd</sup> Sem.	123	15	-	45	-	15	5
General Construction Processes I	C	2 <sup>nd</sup> Sem.	128	30	30	-	15	-	5
Structures I	EST	2 <sup>nd</sup> Sem.	143	30	-	30	15	-	5
Hydraulics II	H	2 <sup>nd</sup> Sem.	125	30	-	30	-	5	5
Soil Mechanics II	GF	2 <sup>nd</sup> Sem.	145	30	-	30	-	7	5
Concrete I	EST	2 <sup>nd</sup> Sem.	146	30	-	30	15	-	5

### Year 3

Course Unit	Field of Study	Duration	Workload						ECTS
			Total	T	TP	PL	OT	O	
Concrete II	EST	1 <sup>st</sup> Sem.	146	30	-	30	15	-	5
Construction Site Management and Safety	P	1 <sup>st</sup> Sem.	141	30	-	30	15	-	5
Structures II	EST	1 <sup>st</sup> Sem.	135	30	-	30	15	-	5
Foundations	GF	1 <sup>st</sup> Sem.	125	30	-	30	-	15	5
Building Design and Detailing	D	1 <sup>st</sup> Sem.	128	-	60	-	-	5	5
Applied Hydraulics I	H	1 <sup>st</sup> Sem.	135	30	-	30	-	15	5
Road and Traffic Engineering	GF	2 <sup>nd</sup> Sem.	131	30	-	30	-	15	5
Metallic and Composite Structures	EST	2 <sup>nd</sup> Sem.	116	15	-	30	-	-	4
Construction Physics	C	2 <sup>nd</sup> Sem.	131	30	-	30	15	-	5
Applied Hydraulics II	H	2 <sup>nd</sup> Sem.	105	15	-	30	-	-	4
Regional and Urban Planning	P	2 <sup>nd</sup> Sem.	131	30	-	30	-	10	5
Project	C	2 <sup>nd</sup> Sem.	196	-	90	-	30	-	7

1<sup>st</sup> Sem. : First Semester





2nd Sem. . Second Semester

(\* ) T . Lectures; TP . Theoretical/Practical Sessions; PL . Laboratory Sessions; P . Practical Sessions; OT . Tutorials; O - Another.

#### 4.3 Programme details:

Transcript of Records enclosed (see Appendix I).

#### 4.4 Grading scheme and, if available, grade distribution guidance:

For each course unit a minimum of 10 grade points (out of a 0-20 scale) is required to pass.

A student's grade within the ECTS scale is determined using the distribution of the student's final marks (in percentage) during the previous three years. The grades are divided into 5 sub-groups: the best 10% are awarded an A-grade, the next 25% a B-grade, the following 30% a C-grade, the following 25% a D-grade and the final 10% an E-grade. When the number of graduates has not reached 30 individuals in the previous three to five years, the European Scale of Comparability of Classifications (EECC) scale is replaced by the reference to the ranking of the student in that year and the number of students graduating that same year. This applies both to course units and to final grade.

#### 4.5 Overall classification of the qualification:

*Licenciatura* completed in **17-09-2012**

Final grade: **13 Grade Points / [B]** (Grade according to EECC scale as possible or Ranking (R) of student and number of graduates that year).

### 5 INFORMATION ON THE FUNCTION OF THE QUALIFICATION

#### 5.1 Access to further study:

The *Licenciado* degree allows access to postgraduate programmes as defined in section 8.

#### 5.2 Professional status:

The *licenciatura* degree is recognised by OET - Order of Technical Engineers. The professional title of technical engineer requires registration with OET.





## 6 ADDITIONAL INFORMATION

### 6.1 Additional information:

(Non-available)

### 6.2 Further information sources:

#### **Escola Superior de Tecnologia de Tomar**

Quinta do Contador . Estrada da Serra, 2300-313 Tomar

Tel: (+251) 249 328 107

Fax: (+351) 249 328 187

e-mail: [estt@ipt.pt](mailto:estt@ipt.pt)

URL: <http://www.estt.ipt.pt>

#### **Instituto Politécnico de Tomar**

Quinta do Contador . Estrada da Serra, 2300-313 Tomar

Tel: (+251) 249 328 100

Fax: (+351) 249 328 186

e-mail: [geral@ipt.pt](mailto:geral@ipt.pt)

URL: <http://www.ipt.pt>

#### **Ministério da Ciência e Ensino Superior É Direcção Geral do Ensino Superior**

Av. Duque DqÁvila, 137, 1069-016 Lisboa

Tel.: (+351) 213126000

Fax: (+351) 213126001

URL: <http://www.mces.gov.pt>

URL: <http://www.dges.mces.pt>

## 7 CERTIFICATION OF THE SUPPLEMENT

7.1 Date: 12-03-2013

7.2 Signature: \_\_\_\_\_

7.3 Capacity: Head of Academic Services Directorate

7.4 Official stamp or seal:

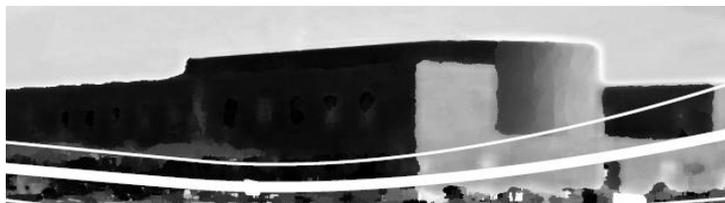
## 8. INFORMATION ON THE NATIONAL HIGHER EDUCATION SYSTEM(S)

The description of the Portuguese Education System, officially provided by NARIC (National Academic Recognition Information Centre), is enclosed (see Appendix II).

For further information go to

<http://www.dges.mctes.pt/DGES/pt/Reconhecimento/NARICENIC/Reconhecimento+Académico/Suplemento+ao+Diploma/>





## APPENDIX I Transcript of Records

Name: **(nome completo)**

Number: **(Cod aluno)**

Degree: **Bachelor in Civil Engineering**

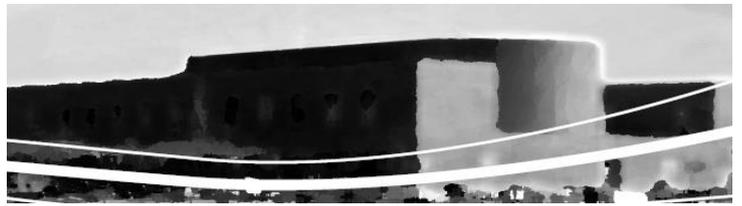
### TABLE CONTAINING THE ECTS PER PER FIELD OF STUDY:

Field of Study	Total ECTS
Mathematics	27
Physics	5
General and Analytical Chemistry	4
Structures	43
Building	32
Geotechnics and Foundations	30
Planning	10
Hydraulics	19
Drawing	10

### TABLE CONTAINING THE COURSE UNITS COMPLETED BY THE STUDENT:

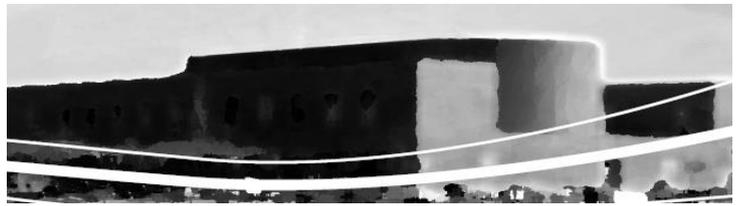
Course Unit	Year	Grade	ECTS	EECC
Building Materials I	1	10	5	E
Mathematical Analysis I	1	10	6	D
Chemistry	1	10	4	E
Physics	1	11	5	C
Statistics	1	10	5	D
Building Materials II	1	16	5	B
Continuum Mechanics	1	10	4	E
Mathematical Analysis II	1	11	6	C
Applied Mechanics	1	12	5	D
Strength of Materials I	1	12	5	D
Applied Geology	1	14	5	A
Linear Algebra	1	12	5	B
Technical Drawing	2	12	5	D
Soil Mechanics II	2	10	5	D
Hydraulics II	2	15	5	B
Surveying	2	11	5	D
General Construction Processes I	2	13	5	C
Concrete I	2	10	5	D
Mathematical Analysis III	2	12	5	C
Structures I	2	13	5	B
Strength of Materials II	2	13	5	B
General Building Processes II	2	14	5	B
Hydraulics I	2	14	5	B





Course Unit	Year	Grade	ECTS	EECC
Soil Mechanics I	2	10	5	D
Building Design and Detailing	3	14	5	C
Steel and Mixed Steel-Concrete Constructions	3	16	4	A
Project	3	16	7	A
Applied Hydraulics II	3	15	4	C
Management and Security	3	12	5	C
Foundations	3	11	5	C
Road and Traffic Engineering	3	16	5	A
Concrete II	3	12	5	B
Applied Hydraulics I	3	16	5	B
Urban and Regional Planning	3	15	5	B
Structures II	3	11	5	D
Buildings Physics	3	11	5	D





## APPENDIX II

### Information on the Portuguese Higher Education System Section 8

The Education Act (Law No.46/86, dated 14 October 1986, further amended by Laws No.115/97, dated 19 September and No. 49/2005, dated 30 August) establishes the general legal framework of the Portuguese 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 3 years old and the mandatory school age. Basic education is universal, compulsory and free and comprises three sequential cycles: the first lasts 4 years, the second 2 years and the third three years. Secondary education is compulsory and lasts three years (10th, 11th and 12th year of schooling).

#### **HIGHER EDUCATION STRUCTURE**

The first steps towards the legal reform of the higher education system were made in 2005, with the introduction of the new credit system (ECTS), mobility mechanisms, diploma supplement, among others. The Education Act was amended in order to implement the Bologna Process.

The new structure divided into 3 cycles of study was created in 2006 and it was fully implemented in Portugal in 2009/2010. Generic qualification descriptors were also defined for every cycle of study, based on acquired skills, as well as the structure for the first and second cycles in terms of typical ECTS intervals.

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

#### ***Licenciado Degree***

The *licenciado* degree may be awarded both by university and polytechnic institutions.

In the polytechnic system, the cycle of study leading to the *licenciado* degree has a normal duration of six semesters and is worth 180 ECTS credits. In certain cases, particularly those governed by special national or European legislation, this cycle of study may last up to seven or eight curricular semesters worth up to 240 ECTS credits.

In the university system, the cycle of study leading to the *licenciado* degree is worth 180 or 240 ECTS credits and a normal length between six and eight curricular semesters. In this first cycle of study, both in university and polytechnic institutions, the *licenciado* degree is awarded on completion of all the units which form part of the respective course curriculum and the total number of ECTS credits required to obtain the degree.

#### ***Mestre Degree***

The *mestre* degree may be awarded by both university and polytechnic institutions. The cycle of study leading to the *mestre* degree is worth from 90 to 120 credits and has a normal length of three to four semesters 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.

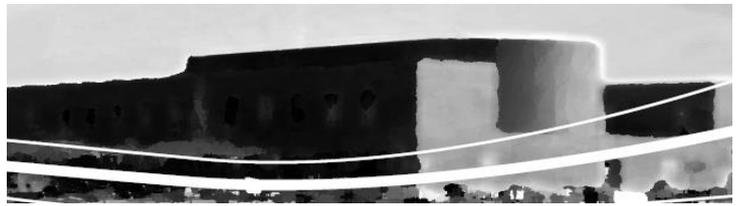
In the Polytechnic system, the cycle of study leading to the *mestre* degree aims primarily at providing the students with a profession-oriented training. In the university system, the cycle of study leading to the *mestre* degree is primarily intended to provide an academic research-oriented training or to consolidate professional skills.

In the university system, the *mestre* degree may also be awarded after an integrated cycle of study (*mestrado integrado*) worth 300 to 360 credits and a normal length of 10 to 12 curricular semesters, in cases where the length of studies required to access a certain professional activity is established by EU regulations or results from a consolidated practice within the European Union. In this cycle of study, the *licenciado* degree is awarded after 180 credits of graduate coursework have been completed corresponding to the first six curricular semesters.

Both in university and polytechnic institutions, the *mestre* degree is awarded on completion of all the course units which form part of the programme and the successful defence of the dissertation, project work or training report and after the ECTS credits specified for the programme have been gained.

#### ***Doutor Degree***





The *doutor* degree is awarded by university institutions on completion of the course units which form part of the doctoral programme, if any, and after the successful defence of an original thesis.

## **ENTRY REQUIREMENTS**

### **National admissions system**

In order to be eligible for entry in the first cycle of study leading to the degree of *licenciado* or in the *mestrado integrado* leading to the degree of *mestre* through the national admissions system, national and foreign students must fulfil the following conditions:

- Holding a high school diploma or a national or foreign legally equivalent qualification
- Having sat for the entrance examinations required for the degree programme they are applying for and get the minimal mark required (Some higher education institutions accept foreign tests or exams);
- Having met the prerequisites specified for the programme they are applying for.

### **Special admissions schemes**

There are also special schemes for admission to higher education for high performance athletes, Portuguese citizens on an official mission abroad, national and foreign staff in diplomatic mission, permanent staff of the Portuguese Armed Forces and scholarship holders within the framework of cooperation agreements signed by the Portuguese government.

### **Special entry routes**

Besides the national and the special admissions schemes there are also special entry routes for applicants holding specific qualifications which allow new cohorts to access higher education and lifelong learning, including:

- Adults aged more than 23 who have passed tailor-made examinations intended to evaluate their ability to pursue higher education studies.
- Holders of a technological specialisation (post-secondary vocational qualification).

Access is subject to admission quotas.

### **Access to the second cycle of study**

The following individuals are eligible to apply for entry to the cycle of study leading to the *mestre* degree:

- Holders of a *licenciado* degree or legally equivalent;
- Holders of a foreign higher degree which is deemed to meet the requirements of the *licenciado* degree by the statutory competent body of the higher education institution to which they are applying.
- Holders of an academic, scientific or professional CV that is recognised as attesting the capacity to carry out this cycle of study by the statutory competent body of the higher education institution to which they are applying.

### **Access to the third cycle of study**

The following individuals are eligible to apply for entry to the cycle of study leading to the *doutor* degree:

- Holders of a *licenciado* degree or legally equivalent;
- Holders of a *licenciado* degree and a relevant CV which is recognised by the statutory competent body of the institution they are applying to as conferring the capacity to pursue this cycle of study;
- Holders of an academic, scientific or professional curriculum which is deemed by the statutory competent body as appropriate to access this cycle of study.

## **GRADING SYSTEM**

The degrees of *licenciado* and *mestre* are awarded a final grade between 10 and 20 on a 0/20 scale, as well as its equivalent in the ECTS grading scale.

The academic degree of *doutor* is awarded a final qualification pursuant to regulations approved by the awarding university.



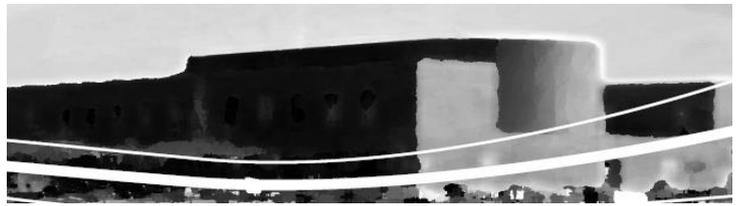
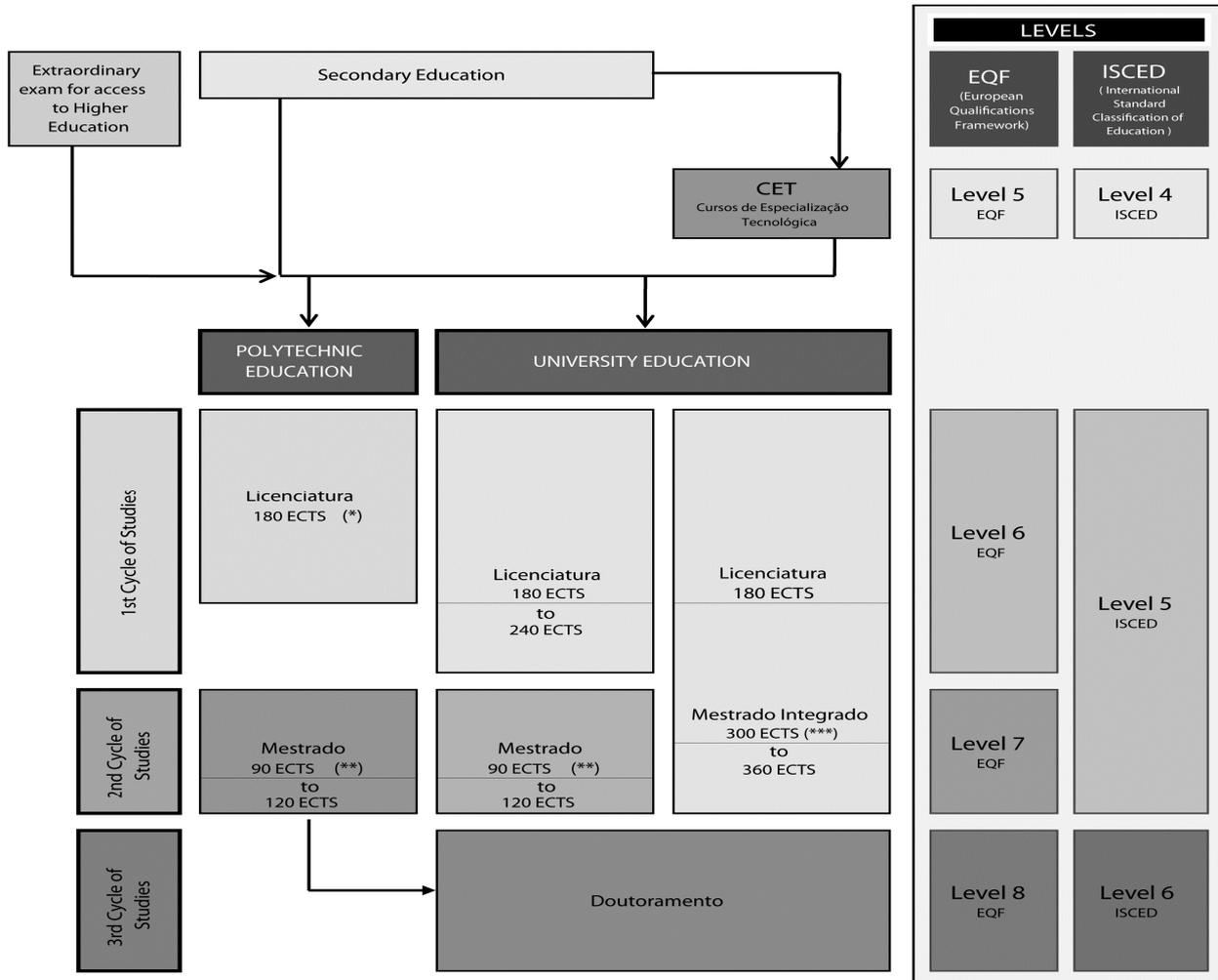


Diagram of the Portuguese Higher Education System according to Bologna



(\*) Except for cases where training amounting to between 210 and 240 credits is a prerequisite to access a certain professional activity.

(\*\*) Exceptionally and without prejudice to the fulfilment of all degree prerequisites and outcomes, the course of study leading to the *Mestre* degree in a given specialist field may amount to 60 credits following a sound practical training at international level in that field.

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

