

INFORMATION ON THE DEGREE COURSE:

**DEGREE IN ARCHITECTURAL STUDIES  
AND  
MASTER´S DEGREE IN ARCHITECTURE  
FROM THE UNIVERSITY OF A CORUÑA**

The current degrees, Degree in Architectural Studies and Master´s Degree in Architecture, leading to the professional exercise as an architect, are hereby presented, adapting to the new order EDU 2075/2010 regulating the requirements for verification of university degrees that enable the practice of architecture

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## **I & II. Brief details of the history of the university: its foundation and the commencement of the Degree in Architectural Studies and Master's Degree in Architecture**

The School of Architecture of the University of A Coruña was created by Decree on 17 August 1973, offering the first course in the academic year 1975-76. At the moment of its creation the School of Architecture was a part of the University of Santiago de Compostela.

Law 11/1989 on the Organisation of the University System of Galicia created new universities in A Coruña and Vigo, which together with the University of Santiago de Compostela were responsible for offering public higher education services in the region of Galicia. The University of A Coruña is based in the city of the same name, and is also responsible for its campus in the city of Ferrol.

Decree 3/1990 of 11 January 1990 on the segregation of centres and services of the University of Santiago de Compostela transferred to the University of A Coruña the centres and facilities in the campuses of A Coruña and Ferrol which until that time had belonged to the University of Santiago de Compostela. These centres included the School of Architecture of A Coruña, with all of its material and human resources. In accordance with Transitory Provision 1 of this Decree, the School of Architecture effectively became a part of the University of A Coruña on 1 January 1990.

Apart from offering the degree course in architecture, the School also initially considered offering doctoral and post-graduate courses aimed at training the existing faculty members and architects interested in carrying out research.

Over the four decades of its existence, the School has modified the study plans for the official university qualifications in Architecture, both as a result of legal requirements and of seeking an academic offer that is more closely adapted to the needs of both students and society at large.

The first study plan applied in teaching the university course corresponded to the period from 1969/1975, which was then partially modified (affecting the first two years) by the study plan from 1984.

After this, the study plan approved by the Universities Council was implanted in accordance with the directives of Royal Decree 1497/1987, as published in the Official State Bulletin on 19 January 1996.

As a result of joining the European Higher Education Area and based on the guidelines of Royal Decree 1393 /2007, a new study plan was devised for qualifications resulting in the title of Graduate in Architecture, authorising the graduate to work as a professional architect. This study plan, published in the Official State Bulletin on 18 April 2011, began to be applied in the academic year 2010/2011.

The new Order EDU / 2075/2010, of July 29, which establishes the requirements for the verification of the official university degrees that qualify for the exercise of the profession of Architect. Establishing the structure of Degree and Master to which the present report is adapted

### **BRIEF DETAILS OF THE DEGREE COURSE OFFERED**

Verification by the Universities Council: 25/03/2015 ID MEC:2503167.

Publication in the Official State Bulletin: 2015:

<http://www.boe.es/boe/dias/2015/10/21/pdfs/BOE-A-2015-11313.pdf>

<http://www.boe.es/boe/dias/2015/12/09/pdfs/BOE-A-2015-13381.pdf>

<http://www.boe.es/boe/dias/2015/10/21/pdfs/BOE-A-2015-11314.pdf>

<http://www.boe.es/boe/dias/2015/10/21/pdfs/BOE-A-2015-11314.pdf>

First academic year when students were accepted on the degree course: 2015/2016

### III. Structure of the study plan

**Total length: Degree in Architectural Studies (5 years / 300 credits) + Master's Degree in Architecture (1 year / 30 credits + Final Master Project 30 credits)**

**Number of academic cycles: 2**

**Distribution of the study plan in ECTS credits by type of subject:**

TYPE OF SUBJECT		NUMBER OF SUBJECTS	NUMBER OF CREDITS	% CREDITS
<b>DEGREE</b>	Basic training	10	63	21%
	Obligatory	35	216	72%
	Optional	3	15	5%
	External work experience (optional)		Up to 4.5 credits recognised as optional	
	Final Degree Work	1	6	2%
Total Degree		49	300	
<b>MASTER</b>	Basic training	0	0	0%
	Obligatory	6	30	50%
	Optional	0	0	0%
	Master's Degree Final Project (MDFP)	1	30	50%
Total Master		7	60	
<b>Total with MDFP</b>			<b>360</b>	

**Structure of the academic year: length, exam sessions, etc.**

Structure of the academic year	Each term	2 Terms
Exam sessions	One with two opportunities to sit the exam	January/ May (1 <sup>st</sup> opportunity, depending on the term) July (2 <sup>nd</sup> opportunity)
Number of weeks of class	15 per term	
Duration of subjects	One term	

**Teaching method, type of evaluation depending on the type of subject:**

<b>Type of subject</b>	<b>Area</b>	<b>Teaching method</b>	<b>Type of evaluation</b>
<b>BASIC TRAINING</b> Degree: 63 ECTS	Mathematics	Lectures on theory Problem-solving exercises	Continuous evaluation Carrying out and presenting exercises. Written theoretical and practical exam
	Physics	Master classes on theory Practical classes	Continuous evaluation Theoretical and practical test
	Graphic expression	Master classes on theory Graphic classes Shared workshops Practice in computer laboratory	Continuous evaluation with requirement to attend 80% of lectures. Objective test. Students' projects in workshop Students' notebooks
<b>PROJECTUAL</b> Degree: 123 ECTS Master: 15 ECTS <b>138 ECTS</b>	Architectural Design	Analysis of written sources Master classes Classes in small groups Collaborative learning Project workshop	Continuous evaluation with requirement to attend lectures Workshop projects Tutored work Objective test
	Town Planning and Urban Design	Lectures on theory Classes to solve doubts and problems Teaching in workshops Carrying out and presenting projects Shared workshops	Continuous evaluation with requirement to attend lectures Theoretical-practical tests Carrying out and presenting exercises individually Presenting and defending group projects Practical work carried out during the course Objective test
	Architectural Composition	Master classes Chaired discussions Tutored projects Field trips	Continuous evaluation Objective tests Analysis of architectural texts, works or fragments

Type of subject	Area	Teaching method	Type of evaluation
<b>TECHNICAL</b> Degree: 93 ECTS Master: 15 ECTS <b>108 ECTS</b>	Structures	Master classes on theory Lectures and/or interactive classes on problems Practical classes on problems Interdisciplinary workshop	Continuous evaluation Written theoretical and practical tests Individual practice and/or group practice
	Building Technology	Master classes on theory. Lectures on theory Practical classes in graphics classroom Practical classes in the laboratory	Continuous evaluation Written theoretical and practical tests Individual practice and/or group practice Tutored projects Multiple choice tests
	Systems	Master classes on theory. Lectures on theory Problem-solving individually or in groups	Continuous evaluation Written theoretical and practical tests Individual practice and/or group practice

Type of subject	Area	Teaching method	Type of evaluation
<p><b>OPTIONAL COMPLEMENTS</b> Degree: 15 ECTS</p>	<ul style="list-style-type: none"> <li>-Advanced Representation in Architecture Graphic</li> <li>-Communication in Architecture</li> <li>-Complex Geometries in Architecture</li> <li>-Mathematical Techniques for Architecture</li> <li>-Advanced Construction</li> <li>-Singular Structures</li> <li>-Systems 3</li> <li>-Industrial Design</li> <li>-Intervention in European Heritage</li> <li>-Complex Scale Architecture</li> <li>-Landscape and Sustainable Habitat</li> <li>-Contemporary Urban Actions</li> <li>Territorial Planning</li> <li>-Theory of Contemporary Intervention</li> <li>-Basic Habitat</li> </ul>	<ul style="list-style-type: none"> <li>-Analysis of written sources</li> <li>-Master classes</li> <li>-Classes in small groups</li> <li>-Collaborative learning</li> <li>Interdisciplinary workshop</li> </ul>	<ul style="list-style-type: none"> <li>-Continuous evaluation</li> <li>-Written theoretical and practical tests</li> <li>-Individual practice and/or group practice</li> <li>-Tutored projects</li> <li>-Multiple choice tests</li> </ul>
<p><b>MASTER'S DEGREE FINAL PROJECT</b> Master: 30 ECTS</p>	<p>Type: Obligatory</p> <p>Producing an original, individual exercise consisting of an integral, professional architecture project, bringing together all of the skills and knowledge acquired during the degree course to the point of demonstrating sufficient ability to permit the full completion of the construction work to which the project refers, in accordance with applicable technical and administrative regulations.</p> <p>Duration: 30 Credits</p> <p>Carried out once all of the credits from the study plan have been obtained.</p> <p>Presented and defended before a university panel, which must include at least one professional of recognised prestige, proposed by the professional bodies.</p>		

#### **IV. Installations of the university school of architecture**

The Architecture Degree Course is offered at the installations of the University School of Architecture, which consist of two buildings. One is the School itself, and the other is known as the Departments Building.

#### **CLASSROOMS**

The classrooms in these two buildings, together with the resources in each of them, are shown in the following diagram:

#### **SCHOOL BUILDING**

TYPE OF ROOM	ROOM	FLOOR	TYPE	CAPACITY	PROJECTION			INTERNET ACCES	SOUND	C.P.U.
					SLIDES	VIDEO PROJECTOR	AUDIO			
AMPHITHEATRE	E-1	-1	LECTURE	178	1	1	1	1	1	
	E-2	-1	LECTURE	178	1	1	1	1	1	
FIXED SEATING	E-3	-1	LECTURE	72	1	1	1	1	1	
	EVENTS ROOM	0	CONFERENCES	184	1	1	1	1	1	
	2-1	2	INTERACTIVE	25		1	1	1		
	2-2	2	LECTURE	77	1	1	1	1	1	
	2-3	2	INTERACTIVE	25		1	1	1		
	2-4	2	LECTURE	77	1	1	1	1	1	
	2-5	2	INTERACTIVE	28		1	1	1		
	2-6	2	INTERACTIVE	28		1	1	1		
	2-7	2	LECTURE/ INTERACTIVE	40		1	1	1		
	2-8	2	LECTURE	90	1	1	1	1	1	
	2-9	2	LECTURE	77		1	1	1	1	
	2-10	2	INTERACTIVE	26		1	1	1		
MOVEABLE SEATING	3-I A	3	LECTURE/ INTERACTIVE	47	1	1	1	1		
	3-I B	3	INTERACTIVE	23		1	1			
	3-II A	3	LECTURE/ INTERACTIVE	47	1	1	1			
	3-II B	3	INTERACTIVE	29		1	1			
	3-III A	3	LECTURE/ INTERACTIVE	41	1	1	1			
	3-III B	3	INTERACTIVE	23		1	1			
	3-IV A	3	LECTURE/ INTERACTIVE	41	1	1	1			



	3-IV B	3	INTERACTIVE	23		1	1		
FIXED SEATING	4-I A	4	INTERACTIVE	30		1	1		
	4-II A	4	LECTURE/ INTERACTIVE	54	1	1	1		
	4-II A	4	LECTURE/ INTERACTIVE	56	1	1	1		
	4-IV A	4	LECTURE/ INTERACTIVE	54		1	1		
	5-II	5	LECTURE	108	1	1	1	1	1
DRAWING ROOM	3-I	3	GRAPHIC	74			1		
	3-II	3	GRAPHIC	66			1		
	3-III	3	GRAPHIC	77			1		
	3-IV	3	GRAPHIC	80			1		
	4-I	4	GRAPHIC	65			1		
	4-II	4	GRAPHIC	57			1		
	4-III	4	GRAPHIC	62			1		
	4-IV	4	GRAPHIC	66			1		

#### DEPARTMENTS BUILDING

TYPE OF ROOM	CLASS	FLOOR	TYPE	CAPACITY	SLIDES	VIDEO PROJ.	INTERNET	SOUND	CPU
MOVEABLE SEATS	ED.1	-2	MASTER	52	1	1	1	1	1
FIXED SEATS	ED.2	-2	LECTURE/INTERACTIVE	44		1	1	1	1
FIXED SEATS	ED. 4	-2	LECTURE/INTERACTIVE	44		1	1	1	1
MOVEABLE SEATS	ED. 5	-2	MASTER	52	1	1	1	1	1
FIXED SEATS	DOCT1	0	DOCTORATE	32	1		1		
MOVEABLE SEATS	DOCT 2	0	DOCTORATE	27	1		1		

As can be seen in these tables, the University School of Architecture currently has a total of 41 classrooms, of which 33 are for lectures and interactive classes, and 8 are for graphics classes.

The **first 33** consist of the following:

- **Eight** lecture rooms with a computer with Internet access, a video projector, slide projector, sound system, and the **events room**.
- **Ten** classrooms (2 in the departments building) used for lectures and interactive teaching as necessary. There are a further **four** classroom in the departments building, two of which are normally used for Master's Degrees and two for Doctorates. All of them have an Internet connection, video projector and slide projector.
- **Ten** classrooms for interactive teaching, with Internet connections and a video projector

The **eight graphics classes** all have Internet connections.

All of the classrooms have suitable structural, acoustic and lighting conditions as well as the necessary equipment for their respective purposes.

## **LABORATORIES AND CLASSROOMS WITH SPECIFIC EQUIPMENT**

- **ASSISTED DESIGN LABORATORY**

The assisted design laboratory consists of the following:

2 classrooms with 28 computers with Pentium 4 (or AMD) processors in each.

1 students' workspace with 26 computers + 7 computers for printers, plotters and scanners.

The computer equipment consists of the following:

Servers

- Primary Domain Controller (SERV1).
- Secondary Domain Controller (SERV2).
- Web and Applications Server (MERCURIO).
- Backup Server (ELTERA).

Clients

- 51 computers in the laboratory rooms.
- 1 Gestetner A3 Color C7528n laser printer
- 2 A1 B/W HP430 plotters
- 2 A0 B/W HP430 plotters
- 1 Nikon CoolScan 4000 slide scanner
- 1 A3 Epson GT-10000+ scanner

- **MODELLING WORKSHOP:**

Location: Basement of the departments building

Surface area: 64.41 m<sup>2</sup>

The workshop contains all of the necessary cutting tools and equipment for making models.

- **DIGITAL CREATION LABORATORY:**

Location: Basement of the departments building

Surface area: 43.74 m<sup>2</sup>

Contains laser cutting machine and 3-D printer

- **PHOTOGRAPHIC LABORATORY**

Location: Basement 2 of the School building

Surface area: 46.06 m<sup>2</sup>

Contains equipment for printing photos (trays, enlarger, etc.)

- **CONSTRUCTION MATERIALS LIBRARY I**

Location: Attic, floor 4.I of the School building

Surface area: 51.92 m<sup>2</sup>

Workshop and space where professors demonstrate materials and construction details, etc.

- **CONSTRUCTION MATERIALS LIBRARY II**

Location: Attic, floor 4.IV of the School building

Surface area: 51.92 m<sup>2</sup>

Workshop and space where professors demonstrate materials and construction details, etc.

- **INSTALLATIONS MATERIAL LIBRARY**

Location: Attic, floor 4.III of the School building

Surface area: 51.92 m<sup>2</sup>

Workshop and space where professors demonstrate materials and construction details, etc.

Currently under construction.

- **STATUES ROOM**

Location: Basement 1 of the School building

Surface area: 52.00 m<sup>2</sup>

Workshop space for drawing statues, charcoal sketching etc. guided by a professor.

- **END OF DEGREE PROJECT ROOM**

Classroom covering approximately 90 square metres on the second floor of the School with 12 work surfaces for delivering and correcting End of Degree Projects.

The laboratories and rooms with specific equipment are perfectly adapted for their intended purposes.

## **LIBRARY**

The library of the School of Architecture has a collection of monographic works consisting of around 50,000 volumes, 618 serial publications and 3,606 volumes in other formats (videodiscs, CDs, photos, cartographic material, etc.).

The library also has access to a significant number of **electronic resources** such as databases, e-books, online magazines and support materials for study and research, thanks to the services provided by the three Galician university libraries (BUGALICIA).

The main field of knowledge covered by the written and electronic resources from the library is architecture and urban planning, although it also covers the fields of mathematics, physics, computing and history.

Like all great libraries, the collection also includes a large reference section with encyclopaedias, dictionaries, annuals, legislation and regulatory material.

The library covers a total of 900 square metres containing the collection (80% of which is freely accessible), with the following areas:

- General reading room
- Reference and group work room
- Newspaper archive
- Reserved funds room
- Storeroom
- Office

The different rooms have a total of **120 reading spaces**

The following resources are available for public use::

- 1 DVD player
- 1 VHS video player
- 1 TV with incorporated DVD player

- 4 PCs to consult the catalogue, access the Internet and access other electronic resources.
- 4 PCs connected to 2 scanners
- 2 photocopiers

The materials available in the library and its respective spaces are adapted to the requirements of the School of Architecture.

#### **OTHER AREAS**

- **EVENTS ROOM** with 184 seats, equipped with public address system and video projector.
- **MEETING ROOM** with 20-25 seats, for meetings of the School's different governing bodies.
- **CONFERENCE ROOM** in the departments building, with 55 seats, with computer for projections and exhibitions.
- **MEETING SPACE**, measuring approximately 122 square metres, with 48 workstations on four tables for group work. It also includes 24 chairs and a Wi-Fi connection for students to work.
- **EXHIBITION SPACE** on the ground floor of the centre.

## V. Faculty members by departments & categories

The following table shows the number of faculty members in each department and category:

CATEGORY / DEPT.	HEAD PROFESSOR	TENURED PROFESSOR	FULL UNI. SCHOOL PROFESSOR	VISITING LECTURER – PhD.	NON-TENURED PROFESSOR	ASSISTANT PROFESSOR	ASSOCIATE PROFESSOR	INTERN, SUB.	TOTAL
Architectural Composition and History of Art	3	1	1	2			1	5	13
Architectural Constructions	2	3	2	3	5		6		23
Architectural Graphics	2	5	2 + 2 PhD.	1	8				20
Cmm & Structural Theory	2	4	1 + 1 PhD.	3	2		2	2	17
Architectural Projects		1	2	3	9	1	2	10	28
Urban Planning And Territorial Organisation	1	2		2	2+1 PhD.	2	3	3	16
Applied Mathematics		3		1	1				5
<b>TOTAL</b>	<b>10</b>	<b>19</b>	<b>11</b>	<b>15</b>	<b>28</b>	<b>3</b>	<b>14</b>	<b>22</b>	<b>122</b>

This table shows the following details:

There are currently 122 professors teaching on the degree course, of which 48 are tenured doctors (10 head professors, 19 tenured professors, 15 contracted PhD professors, 3 University School professors and 1 collaborator), 35 tenured non-PhD professors (8 University School professors and 27 collaborators) and 39 non-tenured professors (3 Assistant professors [1 PhD], 14 Associate Professors [1 PhD] and 22 replacement interns [3 PhDs]).

- The total percentage of professors with a PhD is 43.4%
- Also: 88.8% of the faculty members have professional experience outside of academic work or research.
- Also, 68.3% have more than 10 years' professional experience as an Architect, 6.3% have between 5 and 10 years' experience, and 14.2% have less than 5 years' experience.

## **VI. International agreements with other universities**

The School of Architecture of the University of A Coruña currently participates in exchange or mobility programmes for international students through the ERASMUS project and other bilateral agreements. The countries and universities with which the School has agreements are detailed in the following lists:

BELGIUM	Louvain la Neuve	Université Catholique de Louvain
CYPRUS	Nicosia	Panepistimio Kyprou (UCY) (University of Cyprus)
FRANCE	Clermont-Ferrand	Ecole N. S. d'Architecture de Clermont-Ferrand F
	Lille	Ecole N. S. d'Architecture et de Paysage Lille
	Nantes	Ecole d'Architecture de Nantes
	Paris-La-Villette	Ecole d'Architecture de Paris-La-Villette
	Rouen	Ecole d'Architecture de Normandie
	Rennes	Ecole N. S. d'Architecture de Bretagne
GERMANY	Karlsruhe	Karlsruher Institut für Technologie
	Regensburg	Fachhochschule Regensburg
	Stuttgart	Universität Stuttgart
ITALY	Ferrara	Università degli Studi di Ferrara
	Florence	Universidade dos Estudios de Florencia
	Milan	Politecnico di Milano
	Palermo	Università degli Studi di Palermo
	Rome	Università degli Studi di Roma 'La Sapienza'
	Turin	Politecnico di Torino
	Venice	Università IUAV di Venezia
NORWAY	Trondheim	Norges Teknisk-Naturvitenskapelige Universitet
POLAND	Krakow	Politechnika Krakowska
	Lublin	Politechnika Lubelska
PORTUGAL	Braga	Universidade do Minho
	Coimbra	Universidade do Minho
	Evora	Universidade de Evora
	Lisbon	Universidade Lusófona de Humanidades e Tecnologias
	Oporto	Universidade do Porto
	Covilha	Universidade da Beira Interior
TURKEY	Istanbul	T.C. Yeditepe Universitesi
ARGENTINA	Buenos Aires	Facultad de Arquitectura, Diseño y Urbanismo
	Santa Fe	Universidad Nacional del Litoral
ARMENIA	Teryan	Yerevan State University of Architecture and Construction
BRAZIL	Rio de Janeiro	Universidade Federal de Rio de Janeiro
	Niteroi	Universidade Federal Fluminense
	Florianópolis	Universidade do Estado de Santa Catarina
	Florianópolis	Universidade Federal de Santa Catarina
	São Paulo	Universidade Estadual Paulista 'Júlio de Mesquita Filho'
	Fortaleza	Universidade Federal do Ceará
CHINA	Harbin	The School of Architecture of Harbin Institute of Technology
MOROCCO	Rabat	L'Ecole Nationale D'Architecture
MEXICO	Mexico	Instituto Tecnológico y de Estudios Superiores de Monterrey
	Mexico City	Universidad Autónoma Metropolitana
	Mexicali	Universidad Autónoma de Baja California
RUSSIA	Moscow	Moscow State Academy of Municipal Economy and Construction

## **VII. Admissions**

In accordance with Provision 14 of Royal Decree 1393/2007 of 29 October, modified by Royal Decree 861/2010 of 2 July on the Organisation of Official University Courses, in order to enrol on official Degree courses it is necessary to hold a Baccalaureate qualification or equivalent and to have passed the university entrance exam described in Article 42 of Organic Law 6/2001 on Universities, modified by Law 4/2007 of 12 April.

The list of academic and administrative requirements that applicants must meet in order to enrol on the Degree in Architectural Studies is defined by Royal Decree 1892/2008 of 14 November, regulating access to official university degree courses and enrolment procedures for public Spanish universities, and their respective provisions.

This decree defines the different ways of accessing university studies: university entrance tests, 2<sup>nd</sup> degree vocational training courses, level 3 professional modules, a higher education training cycle or equivalent, or otherwise any other assimilated university qualification or university entrance tests for applicants over the age of 25. Information for students on these access methods is described at <http://ciug.cesga.es/marcoacceso.html>.

This same decree also stipulates that preference will be given to students who wish to access the degree course whose fourth exercise in the general stage corresponds to a topic associated with the field of knowledge of "Engineering and Architecture."

At present there are no special access tests. However, apart from the entrance exam indicated above, this School intends to implant some type of test that evaluates the skills and abilities of students to take this degree course.

The mechanism and procedures for the selection process are defined by the Order of the Regional Ministry of Education and University Organisation, regulating the enrolment process for university students in the faculties of the three Galician universities, and are coordinated by the Inter-University Committee of Galicia (CIUG). This committee was created as a result of an agreement signed by the three Galician universities in order to bring together the principles of a single, open district, university autonomy and the coordination of the procedures and responsibilities in providing access for students to the universities.

All of the information in relation to this university admission method is available on the website:  
<http://ciug.cesga.es/PDF/Guia2009.pdf>

The Regulations for the Enrolment of Students in the University of A Coruña (approved by the University's Board of Governors on 7 June 2000) details the requirements and procedures for accessing degree courses with and without a limited number of places.

<http://www.udc.es/informacion/ga/lexislacionenormativa/regulamentos/academica/a.asp>

### **Enrolment profile for new students**

The recommended profile for students wishing to enrol on the degree course is for students who have passed the university entrance exams after taking Baccalaureate exams in the scientific and technical area, with a solid grounding in mathematics, physics and computing; an education in the humanities, especially in the history of art, and with basic knowledge of spatial representation systems and the basics of design, and with a working knowledge of graphic design, spatial perspective and artistic creation.

### **VIII. Statistics**

Student / Professor ratio: 17:1

Students / class ratio: Theoretical classes 60:1; practical classes, 20:1

Total number of students: 1062

Students per year:

YEAR	NUMBER OF STUDENTS
1	174
2	201
3	210
4	210
5	184
6	83
Students with Projects	

Number of graduates per year: 66



**EXPLANATION OF THE RELATIONSHIP BETWEEN THE COURSES  
INCLUDED IN THE STUDY PLAN WITH THE SUBSECTIONS OF ARTICLE  
46 OF EUROPEAN DIRECTIVE 2013/55/EC**

**1.-DEGREE IN ARCHITECTURAL STUDIES**

**FIRST SEMESTER**

**Physics for Architecture 1**

As well as being a preparatory course, Physics for Architecture 1 is associated with subsection (h) as the contents of this topic focus on the mechanics, statics and calculation of isostatic articulated and arched structures. These contents are essential in order to understand the structural problems associated with building design.

**Drawing in Architecture**

These subjects belong to the preparatory block of topics, laying the foundations for students to subsequently acquire the specific skills and knowledge included in the technical and design modules.

Their main objective is to provide students with initial training in order to acquire the knowledge and skills required to analyse and represent architecture which will subsequently allow them to study formal and aesthetic aspects of architectural designs, how they interact with the urban environment and their adaptation to users' needs, in relation to the skills and knowledge set out in subsections (a), (b), (c) and (e) of Article 46 of Directive 2013/55/UE.

**Mathematics for Architecture 1**

As well as being a preparatory course, Mathematics for Architecture 1 is associated with subsection (b) as a knowledge of geometry is essential for architectural design, composition and layout, and is associated with subsection (h) as a knowledge of numerical calculus, analytical geometry and algebraic methods form the basis for understanding the physical phenomena that make it possible to comprehend the problems of structural design.

## **Descriptive Geometry**

As subjects that belong to the preparatory block of topics, their main is to provide students with initial training in order to acquire the knowledge and skills required for the architectural design and spatial representation set out in subsections (a), (b), (c), (d) and (e) of Article 46 of Directive 2005/36/EC, which subsequently allow them to study formal and aesthetic aspects of architectural designs, how they interact with the urban environment and their adaptation to users' needs, acquiring the specific skills and knowledge of the technical and design modules.

## **Introduction to architecture**

In providing an initial approach by students to architecture understood as a scientific, humanistic and cultural topic, part of the teaching programme serves to update their knowledge on the history, theory, arts and other aspects of technological culture. Another objective is the orientation of this knowledge in the field cultural and artistic education, as well as how it affects our lives, as a means of guiding future designs.

## **SECOND SEMESTER**

### **Architectural Design 1**

The subject Architectural Design 1 focus on learning the instruments used create architectural designs, to achieve the knowledge and skills set out in subsection (a) of Article 46.

### **Analysis of Architectural Forms**

These subjects belong to the preparatory block of topics, laying the foundations for students to subsequently acquire the specific skills and knowledge included in the technical and design modules.

Their main objective is to provide students with initial training in order to acquire the knowledge and skills required to analyse and represent architecture which will subsequently allow them to study formal and aesthetic aspects of architectural designs, how they interact with the urban environment and their adaptation to users' needs, in relation to the skills and knowledge set out in subsections (a), (b), (c) and (e) of Article 46 of Directive 2013/55/UE.

### **Architectural Form Geometry**

As subjects that belong to the preparatory block of topics, their main is to provide students with initial training in order to acquire the knowledge and skills required for the architectural design and spatial representation set out in subsections (a), (b), (c), (d) and (e) of Article 46 of Directive 2005/36/EC, which subsequently allow them to study formal and aesthetic aspects of architectural designs, how they interact with the urban environment and their adaptation to users' needs, acquiring the specific skills and knowledge of the technical and design modules.

### **Mathematics for Architecture 2**

As well as being a preparatory course, Mathematics for Architecture 2 is associated with subsection (h) as a knowledge of mathematical analysis, numerical calculus, analytical geometry and differential geometry provides the student with the necessary mathematical techniques to solve scientific and technical problems that affect the comprehension of the structural design and engineering problems associated with building design.

### **Construction 1**

This introductory course offers an overview of the construction materials, systems and solutions (subsection (g)) in relation to the profession of architecture (subsection (f)) with the aim to provide students with basic knowledge about these subjects that enable them to deepen the analysis of building systems that will be studied in later courses. It introduces students to the design concepts for architectural project (a common theme for all of the subjects on the degree course associated with architectural designs), introduces the specific basic vocabulary of construction, offers an initial grounding in understanding the need for harmony between construction systems used in architectural designs, and introduces students to the skills and knowledge required for structural design and to apply the regulations that affect the different performance requirements of building solutions.

## **THIRD SEMESTER**

### **Architectural Design 2**

The subject of Architectural Design 2 continue to focus closely on architectural design projects, gradually incorporating concepts such as understanding the relationship between people and buildings and between buildings and their environment, as described in subsection (e).

### **Architectural analysis 1**

As a preparatory course, its main aim is to teach students the skills that allow them to express their ideas graphically in an accurate, effective manner, so that they can materialise and communicate their architectural ideas. This subject introduces the basic methodological concepts of architectural analysis that are explored in greater detail in Architectural Analysis 2

### **Physics for Architecture 2**

As well as being a preparatory course, Physics for Architecture 2 is associated with subsection (i) as its contents focus on fluid mechanics, heat transfer, acoustics and electricity. These contents are essential in order to achieve an adequate understanding of the physical problems and technologies associated with internal conditions of comfort and protection against the climate.

### **Construction 2**

This subject provides students with an understanding of the sciences of materials and terrain studies; excavation, foundation and retaining systems; and construction systems using large-scale methods. This knowledge is aimed at acquiring the skills in building design (subsection (h)) and the methods of investigation and preparation of the brief for a design project (subsection (g)), which are complemented with climatic factors (subsection (i)), cost constraints and complying with building regulations (subsection (j)) and the skill to translate the technical knowledge acquired into building designs.

### **History of art**

This subject obviously forms a part of the complementary training of future architectural designers, including a knowledge of the fine arts, their history and

history theoretical importance are essential in terms of their influence on the quality of architectural design, as set out in subsections (b) and (c).

## **FOURTH SEMESTER**

### **Architectural Design 3**

The subject of Architectural Design 3 continue to focus closely on architectural design projects, gradually incorporating concepts such as understanding the relationship between people and buildings and between buildings and their environment, as described in subsection (e).

### **Architectural analysis 2**

As a preparatory course, its main aim is to teach students about architectural analysis using the methodology of the subject, in order to comprehend architecture in terms of its topological, functional, formal, spatial, structural or semantic aspects.

### **Urbanism 1**

Throughout the different years of the Architecture degree, the urban planning courses focus on providing students with the necessary knowledge, skills and abilities to analyse problems associated with the transformation and planning of the city and territory, with a special emphasis on urban design. The teaching strategy gradually introduces students to urban planning and organisation through an understanding of the planning process and learning investigation and diagnostic techniques applied to metropolitan space on different scales.

In particular, the Urbanism 1 course focuses on providing students with essential knowledge about the history of urban layouts. Recognising these processes in modern-day cities introduces students to the techniques and elements of territorial analysis.

### **Structures 1**

The Structures 1 course is associated with subsection (h), as its contents focus on the theory of the elasticity and resistance of materials, as well as the mechanical response of materials. These contents are essential in order to understand the structural problems associated with building design.

## **FIFTH SEMESTER**

### **Architectural Design 4**

The Architectural Design 4 course mainly focus on architectural design projects, with students continuing to work on understanding the relationship between people and buildings and between buildings and their environment, as well as understanding the role of the architect in society (subsection (f) of Article 46).

### **Construction 3**

This subject provides an understanding of construction systems using wood and metal bars, aimed at acquiring the skills in building design (subsection (h)) and the methods of investigation and preparation of the brief for a design project (subsection (g)), complemented with cost constraints and complying with building regulations (subsection (j)) and the acquisition of skills to translate the technical knowledge acquired into building projects designed using the construction systems studied. In methodological terms, this subject is based in an integral workshop together with other disciplines, providing a working environment to acquire the skills to create and develop architectural designs that satisfy the applicable technical requirements and building regulations.

### **Structures 2**

The Structures 2 course is associated with subsection (h) as its contents focus on energy methods, matrix calculus and the finite elements method. These contents are essential in order to understand the structural design problems associated with building design.

### **Urbanism 2**

The Urbanism 2 course examines urban design from the perspective of its component elements, exploring the applicable legal framework and the urban planning information required to ensure a rigorous approach.

### **Systems 1**

This course teaches the necessary knowledge for the design, calculation, specification and execution of building installations to provide water systems, gas systems, electricity systems and renewable energy supplies systems, as

well as installations for urban networks, ventilation systems and heating systems.

This knowledge is associated with acquiring skills in building design (subsection (h)), the methods of investigation and preparation of the brief for a design project (subsection (g)), complemented with climate factors (subsection (i)), cost constraints and building regulations (subsection (j)) and the ability to translate their technical knowledge into building design projects.

## **SIXTH SEMESTER**

### **Architectural Design 5**

The Architectural Design 5 course mainly focus on architectural design projects, with students continuing to work on understanding the relationship between people and buildings and between buildings and their environment, as well as understanding the role of the architect in society (subsection (f) of Article 46).

### **Construction 4**

On this course students study bar systems and surface elements made of reinforced concrete, aimed at acquiring an understanding of structural design (subsection (h)) and the methods of investigation and preparation of the brief for a design project (subsection (g)), complemented with a knowledge of cost constraints and building regulations (subsection (j)) and the skills to translate design concepts into buildings by using the construction systems studied. In methodological terms, this subject is based on training in an integral workshop together with other disciplines, providing a working environment to acquire the skills to create and develop architectural designs that satisfy the applicable technical requirements and building regulations.

### **Structures 3**

The Structures 3 course is associated with subsection (h) as its contents focus on design and construction of steel structures. These contents are essential in order to understand the structural design, constructional and engineering problems associated with building design.

They are also associated with subsection (a) as the design and calculation of steel structures gives students the ability to create architectural designs that satisfy technical requirements.

### **Urbanism 3**

The Urbanism 3 course completes the necessary knowledge to carry out an urban planning project by introducing themes associated with sustainability, green spaces, the landscape, mobility and accessibility, as well as the respective regulatory aspects. It also introduces students to the specific construction problems associated with urban design projects.

### **Theory of architecture**

This subject provides the conceptual training and critical perspective of the fine arts as an influence on the quality of architectural design, as described in subsection (c) of Article 46, with the aim of providing adequate knowledge and comprehension of architecture and urban design, as set out in subsections (a), (b), (e), (f) and (g).

## **SEVENTH SEMESTER**

### **Architectural Design 6**

The Architectural Design 6 course is increasingly complex and maintain the focus on architectural design, understanding the relationship between people and buildings and between buildings and their environment, based on social factors, introducing technological, and energy questions (subsection (i)).

### **Urbanism 4**

The Urbanism 4 course explores in detail the concept of understanding analysis as a project, focusing on the problems of the urban periphery and the process of constructing territory, from the rural landscape to the complex contemporary city.

### **Construction 5**

This course develops students' knowledge in relation to the design, sizing, specification and construction of building envelopes (roofs, façades and basements), examining the most frequent pathologies, analysing the type of damage caused and presenting the methods and procedures used to carry out the respective repairs. This knowledge is aimed at acquiring skills in building design (subsection (h)), in understanding the methods of investigation and preparation of the brief for a design project (subsection (g)), complemented with



climatic factors (subsection (i)), cost constraints and building regulations (subsection (j)) and the ability to translate the technical knowledge acquired into building projects. In methodological terms, this subject is based on training in an integral workshop together with other disciplines, providing a working environment to acquire the skills to create and develop architectural designs that satisfy the applicable technical requirements and building regulations.

#### **Structures 4**

The Structures 4 course is associated with subsection (h) as its contents focus on the design and calculation of structures made of reinforced concrete. These contents are essential in order to understand the structural design, constructional and engineering problems associated with building design.

It is also associated with subsection (a) as the design and calculation of reinforced concrete structures allows students to create architectural designs that satisfy technical requirements.

#### **History of Architecture 1**

The topics covered on this course introduce students to the history of construction in the region of Galicia, providing the necessary guidelines to help analyse and understand its rich, living heritage, and to condition the creation of future projects in an environment that is strongly marked by its history. As a result, this course complies with the requirements set out in subsections (b), (c) and (e) of Article 46 of the Directive.

### **EIGHT SEMESTER**

#### **Architectural Design 7**

The Architectural Design 7 course is increasingly complex and maintain the focus on architectural design, understanding the relationship between people and buildings and between buildings and their environment, based on social factors, introducing technological, and energy questions (subsection (i)).

#### **Construction 6**

This subject provides an understanding of partition systems, exterior and interior covering systems and vertical communication systems, the skills of building design (subsection (h)), methods of investigation and preparation of the

brief for a design project (subsection (g)), complemented with knowledge of climatic factors (subsection (i)), cost constraints and complying with building regulations (subsection (j)) and the ability to translate the technical knowledge acquired into building projects designed using the construction systems studied. In methodological terms, this subject is based in an integral workshop together with other disciplines, providing a working environment to acquire the skills to create and develop architectural designs that satisfy the applicable technical requirements and building regulations.

### **Structures 5**

The Structures 5 course is associated with subsection (h) as its contents focus on the design and calculation of structures made of pre-stressed concrete, brick and wood. These contents are essential in understanding the structural design, constructional and engineering problems associated with building design.

It is also associated with subsection (a) as the design and calculation of pre-stressed concrete, brick and wood structures provides the ability to create architectural designs that satisfy technical requirements.

### **Systems 2**

This subject provides knowledge of the design, calculation, specification and execution of air conditioning systems, lighting systems, transportation systems, protection and acoustic conditioning installations. This knowledge is aimed at acquiring skills in building design (subsection (h)) and the methods of investigation and preparation of the brief for a design project (subsection (g)), complemented with climatic factors (subsection (i)), cost constraints and complying with building regulations (subsection (j)) and the skill to translate the technical knowledge acquired into building designs. This subject is based in an integral workshop together with other disciplines, providing a working environment to acquire the skills to create and develop architectural designs that satisfy the applicable technical requirements.

### **History of Architecture 2**

At an advanced stage of the degree course, students explore how architecture has played a role in our western culture throughout history, studying the development of an important European city in terms of its urban planning and

architecture, with the aim of achieving the objectives set out in subsections (b), (c) and (d) of Article 46 of the Directive.

## **NINETH SEMESTER**

### **Architectural Design 8**

The Architectural Design 8 course focus more closely on all of the skills covered in previous courses in highly complicated architectural designs, concentrating on the responsibility of the architect in relation to the territory, landscape and the environment.

### **Urbanism 5**

The Urbanism 5 course presents students with the technological and urban design of a complex urban project (a neighbourhood, industrial estate, etc.), requiring them to apply the knowledge they have acquired in previous courses, exploring specific regulatory, constructional and organisational aspects associated with urban planning and design.

### **Foundations**

The Foundations course is associated with subsection (h) as the contents focus on soil mechanics and the design and calculation of foundations. These contents are essential in correctly understanding the structural design, construction and engineering problems associated with building design. They are also associated with subsection (a) as the design and calculation of foundations allows students to create architectural designs that satisfy technical requirements.

### **Construction 7**

This final construction course presents contents that explore the compatibility between construction materials and systems (including the analysis of pathologies that arise as a result of incompatibilities), unique construction methods and sustainable construction, applied to the development of execution projects governed by intrinsic construction coherence and congruence between the construction systems used and the aims of the architectural design, including the application of regulations and procedures as used in professional practice. All of these contents focus on acquiring the knowledge and skills in

relation to building design (subsection (h)), methods of investigation and preparation of the brief for a design project (subsection (g)), complemented with climatic factors (subsection (i)), complying with budgetary constraints and building regulations (subsection (j)) and the ability to apply the technical knowledge learned to design projects. In methodological terms, this subject is based in an integral workshop together with other disciplines, providing a working environment to acquire the skills to create and develop architectural designs that satisfy the applicable technical requirements and building regulations.

### **Architectural Law**

The contents of this subject are associated with subsections (d), (f), (j) and (k) as they deal with the application of urban planning regulations, procedures for obtaining licences for integral projects and the execution of construction projects and urban spaces. It also covers professional ethics, corporate organisation and professional procedures (subsection (k)) and evaluation methods (subsection (j)).

## **TENTH SEMESTER**

### **Architectural Design 9**

The Architectural Design 9 course focus more closely on all of the skills covered in previous courses in highly complicated architectural designs, concentrating on the responsibility of the architect in relation to the territory, landscape and the environment.

## **ENHANCING LINES**

### **Optional complements**

The lines intensification curricular are designed as specific training linked to employment opportunities for future graduates in architectural studies. The multiplicity of job opportunities is directed through a series of curricular intensifications optional.

This module integrates a number of optional subjects aimed at achieving further training the student will deepen, according to their choice, on skills, knowledge

and skills related to any of the specific competencies of the degree as well as aspects related to construction, rehabilitation, heritage conservation, sustainability, land use and protection of the landscape, design in any scale, public service, etc. Technical training, territory and landscape, intervention in equity, environmental implications, or the construction of basic habitat and cooperation are, among others, lines particularly active teaching and research in the ETSAC.

The curriculum provides the student to obtain, if desired, one or more mention by the title. To do this, you must overcome a number of subjects associated with the mention or mentions exceeding want to get, with a minimum of 21 ECTS among the subjects set for each line incorporated into curricular intensification, as reflected in Table. Obtaining a mention, offered on an optional basis, will involve an additional effort of the student and must overcome at least a minimum of 306 credits to achieve the degree of graduate in architecture studies with one of the following mentions:

- Architectural restoration (21ECTS)
- Project management and advanced technologies (21 ECTS)
- Landscape Architecture (21 ECTS)
- Architecture and environment (21 ECTS)
- Design and industry (21 ECTS)

If a student does not want to get any mention will shall successfully undergo 300 credits to achieve the degree of Bachelor of Architectural Studies from the University of A Coruña, according to what is stated in Table Grade Organization. Modules, materials and subjects.

CURRICULAR ENHANCING LINES																		
ECTS >	4,5	4,5	6	4,5	6	4,5	6	4,5	6	4,5	6	4,5	4,5	6	6	4,5	6	
<b>ENHANCING LINES</b>	Graphic Communication in Architecture	Advanced Representation in Architecture	Complex Geometries in Architecture	Mathematical Techniques for Architecture	Industrial Design	Intervention in European Heritage	Landscape and Sustainable Habitat	Complex Scale Architecture	Contemporary Urban Actions	Territorial Planning	Theory of Contemporary Intervention	Advanced Construction	Singular Structures	Systems 3	Basic Habitat			
Architectural restoration (21ECTS)						x					x	x	x	x				
Project management and advanced technologies (21 ECTS)			x	x				x				x	x	x				
Landscape Architecture (21 ECTS)		x				x	x	x	x	x							x	
Architecture and environment (21 ECTS)							x			x		x			x		x	
Design and industry (21 ECTS)	x		x	x	x						x		x					

## Final Degree Work

Finally, once you have passed all the subjects of the degree, students must prepare, present and defend before a University Court, the Dissertation Final Degree, 6 ECTS, which will be an original academic work individually by the student, related with any of the studied disciplines.

Once obtained the Degree in Architectural Studies, you can access the Master of Architecture professional character and researcher who provides capabilities that enable for the profession of architect.

# **1.-MASTER´S DEGREE IN ARCHITECTURAL**

## **FIRST SEMESTER**

### **Advanced Architectural Design (a) (g) (f)**

This subject has an eminently practical, analytical and professional approach. It will consist of the analysis of complex projects, in terms of scale, function, conditions of use, materials used and new technologies. The projects to be analyzed will be chosen each academic year in line with those proposed by the various workshops, so that the students can face the project with greater solvency technical and proyect. Architects will be involved in explaining their own works, and visits to those that are considered more accessible and adequate.

### **Architectural Review (f)**

The subject of architectural criticism aims to provide the student with the capacity for argument and judgment as an essential mechanism for reflection on their own architectural proposals and learning about others. As part of the Master's Degree in Architecture, this subject offers basic concepts with which to perform a critical analysis of architectural works. The practical work will be essential in the development of the subject, which will use a blog as a tool to disseminate the critical arguments generated in the classroom.

### **Urban Intervention Tools (a) (f)**

The ability to design, develop, execute and manage urban projects, at any scale, and apply urban norms and ordinances.

The ability to write and manage urban plans at any scale.

### **Construction Design**

In this course the ability to conceive, calculate, design, integrate and implement in buildings and urban complexes, interior systems division, carpentry, stairways and other finished work, as well as systems enclosure cover and other heavy work is reached. These skills are acquired through the study of these systems built in different architectural idea works where shown, the process of technical specification, design, implementation and realization of

architectural space. Is linked, therefore, the architectural space with the project and its final realization. The knowledge and skills acquired from the building systems and other content includes historical setting, types, materials, production, processing, regulation, conception, design, safety assessment, prescription, conservation, injuries, repair and rehabilitation. (g)(a)

### **Structural Design (g)(a)**

In this subject the ability to design and calculate structures with informatic technology and the integral development of the project of execution of building structures is developed. These skills are guided by the knowledge of the methods of research and preparation of construction projects (competence g), as well as the capacity of conception necessary to satisfy the requirements, respecting the limits imposed by the budgetary factors and the construction regulations J).

Methodologically the teaching is directed to the acquisition of the aptitude to create and develop architectural projects that satisfy the benefits and the applicable technical requirements (competence a).

### **Systems Design (g)(a)**

Project execution of urban facilities and buildings, both homes and buildings in the services sector. Contents include supply facilities, water drainage, heating, electricity and air conditioning. a building is selected for practices between developed by the student in the field of Master's Design.

### **Systems Design (a,g,j)**

In this area is developed the project for the implementation of facilities urban and buildings, both in housing and construction services. The contents include the facilities of supply, evacuation of water, heating, electricity and air conditioning.

Students, upon completion of this course, will have the following learning outcomes: suitable for conceiving, calculating, designing and integrating in buildings and urban complexes and performing: Water supply and evacuation installations, heating, air conditioning. (a,g,j)



### **Master´s Degree Final Project**

Elaboration, presentation and defense, once obtained all the credits of degree and master, of an original exercise carried out individually, before a university tribunal in which must be included, at least, one professional of recognized prestige proposed by the professional organizations. The exercise will consist of a comprehensive architectural project of a professional nature in which all the skills acquired in the career will be synthesized. Developed to the point of demonstrating sufficiency to determine the complete execution of the building works to be seen, in compliance with applicable technical and administrative regulations.



Cycles (I)	Modules	Fields of study and Courses	hours and/or ECTS										subject of the course																			
			Field		Courses								I	II	III	IV	V	VI	VII	VIII	IX	X	XI									
			ECTS field	hours field	ECTS Course	hours course	hours pre-sential	hours student's work	hours	ECTS	hours	ECTS	hours	ECTS	hours	ECTS	hours	ECTS	hours	ECTS	hours	ECTS	hours	ECTS	hours	ECTS						
			Art. 46(1)(a)	Art. 46(1)(b)	Art. 46(1)(c)	Art. 46(1)(d)	Art. 46(1)(e)	Art. 46(1)(f)	Art. 46(1)(g)	Art. 46(1)(h)	Art. 46(1)(i)	Art. 46(1)(j)	Art. 46(1)(k)	Art. 46(1)(l)	Art. 46(1)(m)	Art. 46(1)(n)	Art. 46(1)(o)	Art. 46(1)(p)	Art. 46(1)(q)	Art. 46(1)(r)	Art. 46(1)(s)	Art. 46(1)(t)	Art. 46(1)(u)	Art. 46(1)(v)	Art. 46(1)(w)	Art. 46(1)(x)						
<b>MASTER'S DEGREE IN ARCHITECTURE</b>	Module 1 PROJECTUAL (0,5 ECTS)	Field 1 ARCHITECTURAL DESIGN	9	225	9	225	90	135	150	6	0	0	0	0	0	0	12,5	0,5	12,5	0,5	0	0	12,5	0,5	12,5	0,5	12,5	0,5	12,5	0,5		
		9005 Advanced Architectural Design		90	9	225	90	135	150	6	0	0	0	0	0	0	0	12,5	0,5	12,5	0,5	0	0	12,5	0,5	12,5	0,5	12,5	0,5	12,5	0,5	
		Field 2 ARCHITECTURAL COMPOSITION	3	75	3	75	30	45	25	1	12,5	0,5	12,5	0,5	0	0	0	7,5	0,3	12,5	0,5	5	0,2	0	0	0	0	0	0	0	0	
		9004 Architectural Review		60	3	75	30	45	25	1	12,5	0,5	12,5	0,5	0	0	0	7,5	0,3	12,5	0,5	5	0,2	0	0	0	0	0	0	0	0	
		Field 3 TOWN PLANNING AND URBAN DESIGN	3	75	3	75	30	45	12,5	0,5	0	0	0	0	0	0	37,5	1,5	7,5	0,3	0	0	12,5	0,5	0	0	0	0	0	0	5	0,2
		9006 Urban Intervention Tools		60	3	75	30	45	12,5	0,5	0	0	0	0	0	0	37,5	1,5	7,5	0,3	0	0	12,5	0,5	0	0	0	0	0	0	5	0,2
	Module 2 TECHNICAL (5 ECTS)	Field 1 BUILDING TECHNOLOGY	6	150	6	150	60	90	50	2	0	0	0	0	0	0	0	0	0	0	0	0	50	2	12,5	0,5	12,5	0,5	12,5	0,5		
	9001 Construction Design		60	6	150	60	90	50	2	0	0	0	0	0	0	0	0	0	0	0	0	50	2	12,5	0,5	12,5	0,5	12,5	0,5	12,5	0,5	
	Field 2 STRUCTURAL	6	150	6	150	60	90	37,5	1,5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	4	0	0	0	0	12,5	0,5	
	9002 Structural Design		60	6	150	60	90	37,5	1,5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	4	0	0	0	0	12,5	0,5	
	Field 3 SYSTEMS	3	75	3	75	30	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0,2	0	0	0	50	2	12,5	0,5	7,5	0,3
	9003 Systems Design		60	3	75	30	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0,2	0	0	0	50	2	12,5	0,5	7,5	0,3
	Module 3 PROJECT (30 ECTS)	Field 4 MASTER'S DEGREE FINAL PROJECT	30	750	30	750	300	450	375	15	50	2	25	1	25	1	25	1	25	1	100	4	50	2	25	1	25	1	25	1	25	1
	9007 Master's Degree Final Project				30	750	300	450	375	15	50	2	25	1	25	1	25	1	25	1	100	4	50	2	25	1	25	1	25	1	25	1
	<b>MASTER'S DEGREE IN ARCHITECTURE TOTAL HOURS/ECTS mandatory subjects</b>			<b>60</b>	<b>1500</b>	<b>60</b>	<b>1500</b>	<b>600</b>	<b>900</b>	<b>650</b>	<b>26</b>	<b>62,5</b>	<b>2,5</b>	<b>37,5</b>	<b>1,5</b>	<b>62,5</b>	<b>2,5</b>	<b>52,5</b>	<b>2,1</b>	<b>50</b>	<b>2</b>	<b>172,5</b>	<b>6,9</b>	<b>17,5</b>	<b>7</b>	<b>100</b>	<b>4</b>	<b>62,5</b>	<b>2,5</b>	<b>7,5</b>	<b>3</b>	
										<b>43,33%</b>		<b>4,17%</b>		<b>2,50%</b>		<b>4,17%</b>		<b>3,50%</b>		<b>3,33%</b>		<b>11,50%</b>		<b>11,67%</b>		<b>6,67%</b>		<b>4,17%</b>		<b>5,00%</b>		
	<b>DEGREE + MASTER TOTAL HOURS/ECTS mandatory subjects</b>			<b>345</b>	<b>862,5</b>	<b>345</b>	<b>862,5</b>	<b>3450</b>	<b>5175</b>	<b>3512,5</b>	<b>140,5</b>	<b>650</b>	<b>26</b>	<b>262,5</b>	<b>10,5</b>	<b>450</b>	<b>18</b>	<b>452,5</b>	<b>18,1</b>	<b>187,5</b>	<b>7,5</b>	<b>635</b>	<b>25,4</b>	<b>1332,5</b>	<b>53,3</b>	<b>517,5</b>	<b>20,7</b>	<b>242,5</b>	<b>9,7</b>	<b>382,5</b>	<b>15,3</b>	
	<b>DEGREE + MASTER TOTAL HOURS/ECTS mandatory + optional subjects</b>			<b>360</b>	<b>9000</b>	<b>360</b>	<b>9000</b>	<b>3600</b>	<b>5400</b>	<b>3675</b>	<b>147</b>	<b>675</b>	<b>27</b>	<b>275</b>	<b>11</b>	<b>462,5</b>	<b>18,5</b>	<b>465</b>	<b>18,6</b>	<b>212,5</b>	<b>8,5</b>	<b>672,5</b>	<b>26,9</b>	<b>1345</b>	<b>53,8</b>	<b>530</b>	<b>21,2</b>	<b>280</b>	<b>11,2</b>	<b>407,5</b>	<b>16,3</b>	
										<b>40,83%</b>		<b>7,50%</b>		<b>3,96%</b>		<b>5,14%</b>		<b>5,17%</b>		<b>2,36%</b>		<b>7,47%</b>		<b>14,04%</b>		<b>5,89%</b>		<b>3,11%</b>		<b>4,53%</b>		
										Art. 46(1)(a)	Art. 46(1)(b)	Art. 46(1)(c)	Art. 46(1)(d)	Art. 46(1)(e)	Art. 46(1)(f)	Art. 46(1)(g)	Art. 46(1)(h)	Art. 46(1)(i)	Art. 46(1)(j)	Art. 46(1)(k)	Art. 46(1)(l)	Art. 46(1)(m)	Art. 46(1)(n)	Art. 46(1)(o)	Art. 46(1)(p)	Art. 46(1)(q)	Art. 46(1)(r)	Art. 46(1)(s)	Art. 46(1)(t)			

CLARIFICATION	
Mandatory subjects (core/compulsory):	bold
Executive subjects (optional):	regular
Electives in liberal arts: /liberal, in brackets/	
Allocated: class hours, with ECTS	
To be allocated: autonomous student work, with ECTS	
Total: sum of previous concepts	

**Table 2 (English version) ACCORDANCE OF THE CURRICULUM WITH THE DIRECTIVE 2013/55/UE  
DEGREE IN ARCHITECTURAL STUDIES + MASTER'S DEGREE IN ARCHITECTURE FROM THE UNIVERSITY OF A CORUÑA**

DEGREE IN ARCHITECTURAL STUDIES												
YEARS OF STUDIES	SEMESTER	TYPE OF SUBJECT	CODE	SUBJECT	FIELD OF STUDIES	BRIEF DESCRIPTION	CREDITS / YEAR			HOURS / YEAR		
							ECTS Credits	Theoretical	Workshop / practical	Total hours	Theoretical	Workshop / practical
1	FIRST SEMESTER	COM	2008	Physics for Architecture 1	M. of C.M. and Structural Theory	Introduction to mechanics. Vectorial calculus. Static behaviour of rigid solids and materials. Centres of gravity and masses. Calculus for articulated structures. Beams. Gantries. Static behaviour of cables	6	3	3	60	30	30
		COM	2002	Drawing in Architecture	Architectural Drawing	Introduction to freehand illustration. Introduction to architectural drawing. Introduction to computer assisted design.	6	1,5	4,5	60	15	45
		COM	2004	Mathematics for Architecture 1	Applied Mathematics	Algebraic methods. Metric geometry. Analytical geometry. Derivation of functions from different variables. Integration methods. Analytical and numerical solution of differential equations.	6	3	3	60	30	30
		COM	2003	Descriptive Geometry	Architectural Drawing	Introduction to descriptive geometry. Main representation systems: parallel projection. Joint development of parallel projection systems. Development of linear perspective. Introduction to shading theory.	6	1,5	4,5	60	15	45
		COM	2005	Introduction to Architecture	Architectural Composition	Introduction to architecture. Concepts and limits of architecture. The idea of architecture: theories and history of architecture. Introduction to the theory and comprehension of architecture. Analytical and interpretive instruments: knowing how to look at architecture, knowing how to think architecture. Architecture, city and territory.	6	3	3	60	30	30
	SECOND SEMESTER	COM	2001	Architectural Design 1	Architectural Projects	Understanding and representing architectural elements I: Manuals and elements of architectural projects; drawing as an instrument of thought and representation, scale and measurement. Introduction to built architecture; introduction to architectural projects through drawings and the analysis of paradigmatic and/or significant contemporary architectural projects. Projects and composition: architectural composition and representation methods. EXERCISES - Analysis and review of paradigmatic and/or significant contemporary architecture projects. - Handling of simple volumes at human and object scale .	6	1,5	4,5	60	15	45
		COM	2007	Analysis of Architectural Forms	Architectural Drawing	Analysis of architectural forms through freehand drawing. Sketching and draughtsmanship. Creative representation and conceptual graphics.	6	1,5	4,5	60	15	45
		COM	2014	Architectural Form Geometry	Architectural Drawing	Polyhedral surfaces. Architectural applications of polyhedrons. Curved surfaces: basic quadric, elliptical quadric, warped ruled surfaces, architectural applications. Topographic surfaces. Advanced shading theory: chiaroscuro.	6	1,5	4,5	60	15	45
		COM	2009	Mathematics for Architecture 2	Applied Mathematics	Differential geometry of curves and surfaces. Multiple integrals. Curved and surface integrals.	6	3	3	60	30	30
		COM	2010	Construction 1	Architectural Constructions	Architecture, construction, the physical environment and materials. The anatomy of buildings. Understanding the historical evolution of construction systems and their effects on architecture. Introduction to structures. Compression, tensile strength, bending strength. Reinforced concrete as a structural material. Steel as a structural material. Foundations and retaining walls. Roofs. Vertical communication systems. Interior dividing walls. Claddings. Building Systems.	6	3	3	60	30	30
<b>1st Year</b>							<b>60</b>	<b>22,5</b>	<b>37,5</b>	<b>600</b>	<b>225</b>	<b>375</b>

YEARS OF STUDIES	SEMESTER	TYPE OF SUBJECT	CODE	SUBJECT	FIELD OF STUDIES	BRIEF DESCRIPTION	CREDITS / YEAR			HOURS / YEAR		
							ECTS Credits	Theoretical	Workshop / practical	Total hours	Theoretical	Workshop / practical
2	THIRD SEMESTER	COM	2006	Architectural Design 2	Architectural Projects	Understanding and representing architectural elements II: the conventions of graphic language and their application in representing projects; drawing as a project tool; representing projects through geometry. Models. Architectural projects and living space: architectural space: use, function, representation, symbolism; architectural elements and living spaces, architectural space and anthropic aspects This topic analyses aspects associated with the location and construction of architectural elements; places as spaces containing material strata that create a specific identity. Geographical, typological, cultural and referential conditioning factors in the surrounding environment. The definition and use of concepts such as privacy, the division of spaces, public space, levels of intimacy or protected areas. Working with the potential of spaces when planning to insert an object in the landscape (urban, rural or peripheral), with symbolic concepts, emerging forms and abstraction as compositional possibilities. Including references to nature and art as immediate references for architectural elements. EXERCISES Designing and structuring simple architectural spaces for habitation (living, working, interacting).	6	1,5	4,5	60	15	45
		COM	2012	Architectural Analysis 1	Architectural Drawing	Architectural drawing. Techniques and systems used for drawing plans. 3-D drawing using analogue and digital methods. Functional analysis. The concept of space. Perception of space. Analytical strategies.	6	1,5	4,5	60	15	45
		COM	2013	Physics for Architecture 2	M. of C.M. and Structural Theory	Fluids, heat, psychometrics, acoustics, electricity and lighting	6	3	3	60	30	30
		COM	2020	Construction 2	Architectural Constructions	Architecture, materials and building. The science of construction materials. Construction elements of systems under compression. Heavy structures. Terrain. Foundations. Architecture and construction with walls. Ceramic structures, natural stone and concrete blocks. Prospective analysis for construction. The development of construction systems, including history, types, materials, regulations, concepts, design, safety, industrialised processes, appraisal, specification, preservation, pathologies and restoration.	6	3	3	60	30	30
		COM	2015	History of Art	Architectural Composition	Art and architecture. Art throughout history Art and architecture in the classic world, Mediaeval, Renaissance and Baroque periods. From neo-classicism to modernism: the culture of the nineteenth century and the industrial revolution. The avant-garde movements and art from the twentieth century.	6	4,5	1,5	60	45	15
	FOURTH SEMESTER	COM	2011	Architectural Design 3	Architectural Projects	This topic focuses on the organisation and structuring of spaces within the functional layout of a building, challenging the traditional floor-layout concept and exploring the possibilities that a spatial approach towards architecture offers in terms of allocating different uses to a building. Students work with basic objects and geometries, exploring the possibilities for artistic experimentation using strategies such as addition, twinning, inversion or seriation, within a conceptual approach associated with the culture of forms. Common architectural typologies will be used, encouraging students to explore different ideas, progressively enriching their cultural knowledge and perfecting the tools used for creating projects.	9	2,25	6,75	90	22,5	67,5
		COM	2017	Architectural Analysis 2	Architectural Drawing	Graphically rendering the project process. Topological analysis. Function analysis. Forms. Spatial analysis. Analysing light. Structural and constructive analysis. Introduction to the graphic analysis of architecture .	9	2,25	6,75	90	22,5	67,5
		COM	2018	Urbanism 1	Urbanism and T.O.	The theory and history of urban layouts, exploring the process of building cities throughout time, from cities with mediaeval origins through to contemporary urban growth (suburbs, industrial estates, garden cities, etc.), using techniques for urban and territorial analysis.	6	1,5	4,5	60	15	45
		COM	2019	Structures 1	M. of C.M. and Structural Theory	Theory of elasticity and material resistance. Stress and deformation states. The mechanical response of materials. Axial force. Shearing force. Bending: stress analysis. Pure, simple, skewed and compound bending. Bending: deformation analysis. Torque. Buckling.	6	3	3	60	30	30
	<b>2nd Year</b>							<b>60</b>	<b>22,5</b>	<b>37,5</b>	<b>600</b>	<b>225</b>

3

YEARS OF STUDIES	SEMESTER	TYPE OF SUBJECT	CODE	SUBJECT	FIELD OF STUDIES	BRIEF DESCRIPTION	CREDITS / YEAR			HOURS / YEAR			
							ECTS Credits	Theoretical	Workshop / practical	Total hours	Theoretical	Workshop / practical	
3	FIFTH SEMESTER	COM	2016	Architectural Design 4	Architectural Projects	This topic introduces students to creating their own project methodology, analysing and applying the necessary conditions to create a project from a conceptual perspective. Analysing other artistic and creative aspects apart from architecture, together with a common thread that connects and interrelates the successive projects, will make it possible to approach the different exercises during the term with sufficient variety, encouraging students to take different approaches towards their work, sharing experiences, skills and personal references, progressively enriching their cultural knowledge and perfecting their working tools in relation to projects.	6	1,5	4,5	60	15	45	
		COM	2022	Construction 3	Architectural construction	Fixed and mobile partition systems, interior carpentry, vertical communication and transportation systems: stairs. Covering systems for buildings and urban areas; the development of building systems, including history, typologies, materials, regulations, conception, design, safety, industrialised processes, appraisal, specification, conservation, energy methods, basic calculus. Essential elements of the matrix method. Structural analysis using the matrix method for stiffness. Applications. Flax matrix methods. 3-D matrix methods. Structural analysis using the finite elements method. Basic aspects of the finite elements method. Bar structures. 2-D structures. 3-D structures. Isoparametric formulation. Applications.	6	3	3	60	30	30	
		COM	2023	Structures 2	M. of C.M. and Structural Theory			6	3	3	60	30	30
		COM	2024	Urbanism 2	Urbanism and T.O.	Urbanism and T.O.	Basic on the analysis and layout of urban space, focusing on the initial relationships defined in its construction, including those that define its identity and those that can affect its future development and changes, either as a result of a lack of definition (empty spaces) or apparent contradiction (imbalances, frictions). Use of analytical, synoptic and design techniques. The work carried out will concentrate on a built part of the city which is currently unconsolidated but with plans for changes. Special attention will be given to urban development information techniques, exploring the correct instruments for urban development.	6	1,5	4,5	60	15	45
		COM	2030	Systems 1	Architectural construction	Architectural construction	Systems in architecture. Supply Systems, systems for the treatment and elimination of water. Gas Systems and other fuels. Electrical Systems. Urban networks. Renewable energy sources. Heating and ventilation systems.	6	4,5	1,5	60	45	15
	SIXTH SEMESTER	COM	2021	Architectural Design 5	Architectural Projects	Architectural Projects	This topic will consolidate each student's individual design methodology, allowing them to verify how approaching a project from a disciplinary perspective allows them to deal with very diverse programmes in terms of their scale and complexity. In this term we will focus on the role of the building in relation to its surroundings, considering its influence ranging from interventions in consolidated urban settings of heritage interest, to developing suburbs on the outskirts of the city without any characteristic built elements. We will also focus on the concept of collective use, spaces for interaction and relaxation, privacy conditions, circulation, spaces used as meeting points, questions regarding representativeness and image, the qualities of outdoor spaces, pavements, green spaces, lighting conditions in different spaces, etc.	6	1,5	4,5	60	15	45
		COM	2027	Construction 4	Architectural construction	Architectural construction	Porticoed construction systems using steel and wood. General aspects of metallic construction; materials: types, properties and behaviour; safety and maintenance; joints used for metal structures; the construction of metallic structures; roofs used for metallic construction; small bar systems in architecture; building in wood; wood throughout history; the material: wood; construction elements made of wood; joints, latticework in wood; types of construction; panelling and partition walls; pathologies affecting wood and therapeutic measures. The development of construction systems, including: history, typologies, materials, regulations, conception, design, safety, industrialised processes, appraisal, specification, preservation, pathologies and repair.	6	3	3	60	30	30
		COM	2028	Structures 3	M. of C.M. and Structural Theory	M. of C.M. and Structural Theory	Steel structures: structural design of buildings; calculations; structural analysis; verification of resistance of sections; sizing of compressed elements; sizing of deflected elements; joints. Bases for supports.	6	3	3	60	30	30
		COM	2029	Urbanism 3	Urbanism and T.O.	Urbanism and T.O.	Environmental aspects and sustainability associated with the open/public space of consolidated cities. This topic will include a project to design a public open space associated with road networks, green spaces or other open spaces: squares, gardens, parks, riverside walks, seafont promenades, avenues, etc. The project will explore the different types of urban mobility and public use of these spaces. We will explore the development of construction projects and their layout, including aspects such as gardening and plant species.	6	1,5	4,5	60	15	45
		COM	2025	Theory of Architecture	Architectural Composition	Architectural Composition	Architecture and architectural composition. The theoretical basis of architecture. Intentionality in architectural creation. Aesthetics: architectural theories and aesthetic theories. The relationships between architectural techniques, art and systems. The architecture and the city of the nineteenth and twentieth centuries: technology and the metropolis. The maestros of modern architecture. Basic elements of architectural theory in the twenty-first century.	6	4,5	1,5	60	45	15
<b>3rd Year</b>							<b>60</b>	<b>27</b>	<b>33</b>	<b>600</b>	<b>270</b>	<b>330</b>	

4

YEARS OF STUDIES	SEMESTER	TYPE OF SUBJECT	CODE	SUBJECT	FIELD OF STUDIES	BRIEF DESCRIPTION	CREDITS / YEAR			HOURS / YEAR		
							ECTS Credits	Theoretical	Workshop / practical	Total hours	Theoretical	Workshop / practical
4	SEVENTH SEMESTER	COM	2026	Architectural Design 6	Architectural Projects	In this topic students will create projects of an intermediate complexity, focusing on the compositional, spatial, technical and functional aspects of architectural and urban design. The process of composition and design will include learning technological and Urbanism subjects. Students will work with housing, housing regulations and standards, neighbourhoods and urban space, resolving layouts for housing that allow for a global perspective of the complex relationships that can arise in a given space. The change of scale in comparison to previous terms and the extent of the projects will require the students to make use of experience and knowledge acquired in other disciplines, as well as in their daily lives. Other topics covered in greater detail will include basic design projects and execution projects applying acceptable living standards, the elimination of barriers, evacuation criteria, technical building codes and Urbanism regulations.	6	1,5	4,5	60	15	45
		COM	2032	Urbanism 4	Urbanism and T.O.	Studying built space. Basic aspects for the construction of territory. Suburban areas (intermediate space). Analysis as a project. Studying elements used to organise and structure territory, their origin, fragility and transformation. Connections between different spaces (urban/rural). The process of constructing territory, its reality, characteristics and potential. The creation of spaces for human use, mankind as a transformer and user of built space. The city and territory as human creations; peripheral spaces, transitions, intermediate spaces. Associated with Urbanism, sustainability, the environment, landscape and territorial organisation.	6	1,5	4,5	60	15	45
		COM	2033	Construction 5	Architectural construction	Porticoed construction systems in concrete: Porticoes in architectural composition. The materials used for porticoed systems. Building in concrete; general aspects. The material: types, properties and behaviour. Concrete structures: interactions between the soil and cement; types of foundations. Formwork, shuttering and moulds. Safety and durability of the structure. The pathology of concrete. The development of construction systems, including historical aspects, typologies, materials, regulations, conception, design, safety, industrialised processes, appraisal, specification, preservation, pathologies and repair.	6	3	3	60	30	30
		COM	2034	Structures 4	M. of C.M. and Structural Theory	Introduction to reinforced concrete structures. Reinforcement of sections. Porticoes. One-way floor slabs. Rectangular floor slabs and panels. Pathology and reinforcement in reinforced concrete.	6	3	3	60	30	30
		COM	2035	History of Architecture 1	Architectural Composition+E33:E37/10	History of Architecture I, studying the historical heritage of Galicia : Galician architecture in history; ancient architecture, the middle ages and modern age. The origins of Galician architecture. Romanesque architecture in Galicia. Gothic architecture in Galicia. Architecture of the Renaissance and Baroque periods. Neoclassicism and eclecticism. Galician architecture in the modern age.	6	4,5	1,5	60	45	15
	EIGHTH SEMESTER	COM	2031	Architectural Design 7	Architectural Projects	In this subject students will produce projects of a medium-high complexity based on the criteria from the previous term. Students will work with single family homes, collective homes and other types of housing, and they interact with the areas where they are built. This will include aspects such as spatial flexibility, accessibility, private and shared zones, transitions between the interior and exterior, children's playgrounds, working areas, storage areas, economy, the needs of daily life and new ways of working. The term will end with a study and appraisal of community facilities required for the area being studied, and the integral treatment of the area.	6	1,5	4,5	60	15	45
		COM	2037	Construction 6	Architectural construction	Building envelope systems and their characteristics: thermal, acoustic, safety, lighting, filtration; requirements. Construction design: roofs, light and heavy façades, underground building envelopes; glazing, external carpentry, integration in urban buildings and ensembles; execution. Energy certification. Sustainability. Development of construction systems, including history, typology, materials, regulations, conception, design, safety, industrialised processes, appraisal, specification, preservation, pathologies and repair.	6	3	3	60	30	30
		COM	2038	Structures 5	M. of C.M. and Structural Theory	Pre-stressed concrete structures. Introduction, calculations, pre-stressed beams. Floor slabs using pre-stressed pre-fabricated elements. Post-tensioned slabs. Fabrication structures: structural layout of the building, calculations, sizing of non-reinforced structures, sizing of reinforced structures. Wood structures: structural layout of the building, calculations, final limit states, service limit states, joints.	6	3	3	60	30	30
		COM	2039	Systems 2	Architectural construction	Air conditioning systems. Lighting. Transportation and special Systems. Protective Systems. Acoustic conditioning.	6	4,5	1,5	60	45	15
		COM	2040	History of Architecture 2	Architectural Composition	Modern and Contemporary architecture. The history of architecture as the history of the city. Background: the historic city and its architecture. The scientific revolution and the industrial revolution in architecture and urban layout. The Modern Movement: background and development. Review and critique of the Modern Movement. The processes of crisis and disciplinary recovery. The destruction and disappearance of the universal models. Architecture and the modern city: our present.	6	4,5	1,5	60	45	15
<b>4th Year</b>							<b>60</b>	<b>30</b>	<b>30</b>	<b>600</b>	<b>300</b>	<b>300</b>

YEARS OF STUDIES	SEMESTER	TYPE OF SUBJECT	CODE	SUBJECT	FIELD OF STUDIES	BRIEF DESCRIPTION	CREDITS / YEAR			HOURS / YEAR				
							ECTS Credits	Theoretical	Workshop / practical	Total hours	Theoretical	Workshop / practical		
5	NINTETH SEMESTER	COM	2036	Architectural Design 8	Architectural Projects	This topic focuses on complex projects on an urban scale, considering the special conditions involved in interventions in fragments of the city; the connection of road infrastructures and facilities, topographical and climatological conditions, frictions and nexuses with previously existing elements, conditions for processing and development, etc. Students will investigate the shape of the city, the creation and transformation of the urban fabric, requirements in terms of open spaces, equipment, collective housing, the landscape, social needs, ecology and sustainability, quality of life and the architectural, urban development and landscape traditions of western culture. The project must be highly complex in nature, culminating the student's progress during the degree course.	9	1,5	7,5	90	15	75		
		COM	2042	Urbanism 5	Urbanism and T.O.	This topic deals with Urbanism on an intermediate scale in depth, with the aim of teaching students the techniques involved in Urbanism. The object of the study will be a part of the city. The exercise will be based on formal aspects used in professional activity, as a result of which the respective legal status will be defined, either as a Partial Plan, Special plan, or any other types of procedure applied in municipal planning activity. The following themes will be explored: Residential development, either as a result of expansion or newly created housing, through remodelling or renovation work. The creation of public spaces and areas with different facilities. Suburban areas. Tertiary development, new centres. Industrial interventions on a minor scale. Mini-industrial estates. Other topics associated with current Urbanism concerns.	6	1,5	4,5	60	15	45		
		COM	2043	Foundations	M. of C.M. and Structural Theory	Soil mechanics. Recognising soils. General concepts for foundations. Surface foundations. Medium and deep foundations. Excavation and containing work. Walls and screens. Introduction to the pathology of foundations and underpinning techniques.	6	3	3	60	30	30		
		COM	2045	Construction 7	Architectural construction	The pathology of materials. Compatibility between materials and construction systems. Unique construction systems. Coherence between construction materials and systems and architecture. Sustainable construction. The development of construction details and project documentation. Application of technical and construction regulations.	4,5	1,5	3	45	15	30		
		COM	2046	Architecture Law	Architectural construction	Introduction. Basic Urbanism legislation. Sectorial laws. Planning. Urban economics. Professional ethics, civil liability and professional practice. Real estate appraisals.	4,5	1,5	3	45	15	30		
	TENTH SEMESTER	COM	2041	Architectural Design 9	Architectural Projects	This topic will focus on experimental architecture, working on complex scales and for specialised programmes. Students will explore the emblematic nature of certain types of architecture and responsibilities with regard to the territory, landscape and the environment. The exercises will include a thematic approach towards highly specialised aspects such as architectural renovation, sustainable design, the incorporation of new technologies or advanced structural systems.	9	1,5	7,5	90	15	75		
		OP*		Optional 1			6	3	3	60	30	30		
		OP*		Optional 2			4,5	1,5	3	45	15	30		
		OP*		Optional 3			4,5	1,5	3	45	15	30		
		COM	2059	Final Degree Work		Elaboration, presentation and defense before a Jury of an original work done individually related to any of the disciplines studied	6	1	5	60	10	50		
		<b>5th Year</b>							60	17,5	42,5	600	175	425
		<b>DEGREE IN ARCHITECTURAL STUDIES. TOTAL HOURS/ECTS mandatory subjects</b>							<b>285</b>	<b>113,5</b>	<b>171,5</b>	<b>2850</b>	<b>1135</b>	<b>1715</b>
	<b>DEGREE IN ARCHITECTURAL STUDIES. TOTAL HOURS/ECTS mandatory + optional subjects</b>							<b>300</b>	<b>119,5</b>	<b>180,5</b>	<b>3000</b>	<b>1195</b>	<b>1805</b>	



# OPTIONAL SUBJECTS

YEARS OF STUDIES	SEMESTER	TYPE OF SUBJECT	CODE	SUBJECT	FIELD OF STUDIES	BRIEF DESCRIPTION	CREDITS / YEAR			HOURS / YEAR		
							ECTS Credits	Theoretical	Workshop / practical	Total hours	Theoretical	Workshop / practical
OPTIONAL SUBJECTS	TENTH SEMESTER (Choose 15 ECTS or more for mentions)	OP*	2051	Advanced Representation in Architecture	Architectural Drawing	Acquire skill in the handling of computer-aided 3D drawing as a tool during the design process, as an element of communication and representation. Knowledge and analysis of different architectures in the urban environment using 3D software. Properly use graphic analysis as a knowledge tool. Acquire knowledge and skills combined in aspects of architectural representation as relevant as topography and sunshine, as well as the interaction of color and art, and know how to apply them in each case	4,5	1,5	3	45	15	30
			2053	Graphic Communication in Architecture	Architectural Drawing	Knowledge and application of design procedures for the resolution of graphic projects and architectural applications. Knowledge of the aesthetic and expressive organization of the visual arts as a starting point for the aesthetic perception of the environment. Handle the elements of the visual vocabulary for graphic formalization in the appropriate support. To handle photographic techniques as a visual tool in the exhibition of graphic and architectural projects. Know how to apply the appropriate computer tools to each graphic project. Web pages design.	4,5	1,5	3	45	15	30
			2052	Complex Geometries in Architecture	Architectural Drawing	Understanding Geometry underlying the formal definition of architecture. Understand the relationship between the use of a particular surface type, the generated space and the final formal result. Acquire skills in the management of BIM processes as an instrument of communication and representation. Knowledge and analysis of paradigmatic architectures, built or simply projected using CAD-3D.	4,5	1,5	3	45	15	30
			2047	Mathematical Techniques for Architecture	Architectural Drawing	Advanced knowledge of specific aspects of Mathematics subject not expressly contemplated in Order EDU 2075/2010.	4,5	1,5	3	45	15	30
	OP*	2048	Advanced Construction	Architectural construction	Introduction to constructive rehabilitation project. Sustainable construction. Advanced management of the construction project	6	3	3	60	30	30	
		2049	Singular Structures	M. of C.M. and Structural Theory	BIM structural, parametric design and digital manufacturing. Structures of skyscrapers. Lightweight deck structures. Sheets structures. Introduction to the intervention project in structures	6	3	3	60	30	30	
		2050	Systems 3	Architectural construction	Facilities in active and passive architecture. Advanced facilities design. Specialized calculation of facilities.	4,5	1,5	3	45	15	30	
	OP*	2054	Industrial Design	Architectural Projects	The student acquires knowledge about the historical evolution of industrial design and acquaints himself with the concepts of perception and psychological factors of bionics and ergonomics. Acquires knowledge of the basic concepts of economics related to the management of the design in the company. They acquire competences in the design and creation of design objects.	6	3	3	60	30	30	
		2055	Intervention in European Heritage	Architectural Projects	Ability to solve key issues of the architectural project, in particular intervention on European heritage: the start of the project, the particularities of this process, group work, meeting and exchange between different European architectural cultures, continuous criticism of the results still in progress. Always the formal results as work material, the continuous dialogue between languages: heritage and current forms, new materials and existing factories, etc.	4,5	1,5	3	45	15	30	
		2058	Complex Scale Architecture	Architectural Projects	To study this subject will allow the student to approach the architectural fact from pluridisciplinary approaches and optics, incorporating answers to a series of conditions and variables increasingly complex and profuse. It will complement the development program of the subjects in the area of Architectural Design.	4,5	1,5	3	45	15	30	
		2056	Landscape and Sustainable Habitat	Architectural Projects Urbanism and T.O.	Ability to analyze and study the physical environment and environmental values, the ability to represent the landscape, its elements and composition applied to territorial planning. Knowledge of urban ecology, ability to assess the environmental impact of the architectural and urban project. Effective integration of environmental and aesthetic criteria in the design of open spaces, streets, squares, parks and gardens. Development of critical and constructive observation capacity in relation to the urban environment	6	3	3	60	30	30	
		2060	Contemporary Urban Actions	Urbanism and T.O.	The subject aims at the study and critical review of contemporary architecture, especially in the works that involve intervention in what has already been constructed. The student is offered an optional course of knowledge about recent architectures, not included in the syllabuses of the compulsory subjects of Composition taught in previous semesters.	6	3	3	45	15	30	
		2057	Territorial Planning	Urbanism and T.O.	The content of the signature is centered in the knowledge of the territorial organization and its analytical description; landscape; The heritage of the natural space, its protection and intervention criteria; As well as the figures of order in their multiple scales. The student is presented with a practical work of analysis, diagnosis, design and management of a territorial area. The general topics are: Territorial systems, Figures of territorial and urbanistic ordination, Natural spaces and ordination, Growth and sustainability	4,5	1,5	3	45	15	30	
		2061	Theory of Contemporary Intervention	Architectural Composition	The heritage of modernity. The fragmentation of contemporary languages. Build in the built: contemporaneity and history. Technical paradigms. The formal paradigms. Sustainable paradigms. Contemporary architecture and ethical reflection. The thought and the constructed fact. The mechanisms of contemporary composition.	4,5	1,5	3	45	15	30	
	OP*	2062	Basic Habitat		Study of the construction of human habitat in its broadest dimension, focusing on critical contexts and non-formal processes	6	3	3	45	15	30	

## MASTER'S DEGREE IN ARCHITECTURE FROM THE UNIVERSITY OF A CORUÑA

YEARS OF STUDIES	SEMESTER	TYPE OF SUBJECT	CODE	SUBJECT	FIELD OF STUDIES	BRIEF DESCRIPTION	CREDITS / YEAR			HOURS / YEAR		
							ECTS Credits	Theoretical	Workshop / practical	Total hours	Theoretical	Workshop / practical
6	FIRST SEMESTER	COM	9005	Advanced Architectural Design	Architectural Projects	This subject has an eminently practical, analytical and professional approach. It will consist of the analysis of complex projects, in terms of scale, function, conditions of use, materials used and new technologies. The projects to be analyzed will be chosen each academic year in line with those proposed by the various workshops, so that the students can face the project with greater solvency technical and proyect. Architects will be involved in explaining their own works, and visits to those that are considered more accessible and adequate.	9	1,5	7,5	90	15	75
		COM	9004	Architectural Review	Architectural Composition	The subject of architectural criticism aims to provide the student with the capacity for argument and judgment as an essential mechanism for reflection on their own architectural proposals and learning about others. As part of the Master's Degree in Architecture, this subject offers basic concepts with which to perform a critical analysis of architectural works. The practical work will be essential in the development of the subject, which will use a blog as a tool to disseminate the critical arguments generated in the classroom.	3	2	1	30	20	10
		COM	9006	Urban Intervention Tools	Urbanism and T.O.	The ability to design, develop, execute and manage urban projects, at any scale, and apply urban norms and ordinances. The ability to write and manage urban plans at any scale.	3	1	2	30	10	20
		COM	9001	Construction Design	Architectural construction	In this course the ability to conceive, calculate, design, integrate and implement in buildings and urban complexes, interior systems division, carpentry, stairways and other finished work, as well as systems enclosure cover and other heavy work is reached. These skills are acquired through the study of these systems built in different architectural idea works where shown, the process of technical specification, design, implementation and realization of architectural space. Is linked, therefore, the architectural space with the project and its final realization. The knowledge and skills acquired from the building systems and other content includes historical setting, types, materials, production, processing, regulation, conception, design, safety assessment, prescription, conservation, injuries, repair and rehabilitation. (g)(a)	6	3	3	60	30	30
		COM	9002	Structural Design	M. of C.M. and Structural Theory	In this subject the ability to design and calculate structures with informatic technology and the integral development of the project of execution of building structures is developed. These skills are guided by the knowledge of the methods of research and preparation of construction projects (competence g), as well as the capacity of conception necessary to satisfy the requirements, respecting the limits imposed by the budgetary factors and the construction regulations J). Methodologically the teaching is directed to the acquisition of the aptitude to create and develop architectural projects that satisfy the benefits and the applicable technical requirements (competition a).	6	3	3	60	30	30
		COM	9003	Systems Design	Architectural construction	In this area is developed the project for the implementation of facilities urban and buildings, both in housing and construction services. The contents include the facilities of supply, evacuation of water, heating, electricity and air conditioning. Students, upon completion of this course, will have the following learning outcomes: suitable for conceiving, calculating, designing and integrating in buildings and urban complexes and performing: Water supply and evacuation installations, heating, air conditioning. (a,g,j)	3	1,5	1,5	30	15	15
	SECOND SEMESTER	COM	9007	Master's Degree Final Project	Architectural Composition Architectural construction Architectural graphics M. of C.M. and Structural Theory Architectural Projects Urbanism and T.O.	Elaboration, presentation and defense, once obtained all the credits of degree and master, of an original exercise carried out individually, before a university tribunal in which must be included, at least, one professional of recognized prestige proposed by the professional organizations. The exercise will consist of a comprehensive architectural project of a professional nature in which all the skills acquired in the career will be synthesized. Developed to the point of demonstrating sufficiency to determine the complete execution of the building works to be seen, in compliance with applicable technical and administrative regulations.	30	1,28	28,72	300	12,8	287,2
<b>MASTER'S DEGREE IN ARCHITECTURE. TOTAL HOURS/ECTS mandatory subjects</b>							<b>60</b>	<b>13,28</b>	<b>46,72</b>	<b>600</b>	<b>132,8</b>	<b>467,2</b>
<b>DEGREE + MASTER. TOTAL HOURS/ECTS mandatory subjects</b>							<b>345</b>	<b>126,8</b>	<b>218,2</b>	<b>3450</b>	<b>1268</b>	<b>2182</b>
<b>DEGREE + MASTER. TOTAL HOURS/ECTS mandatory + optional subjects</b>							<b>360</b>	<b>132,8</b>	<b>227,2</b>	<b>3600</b>	<b>1328</b>	<b>2272</b>

\*Optional subjects to be chosen from the school offer

CLARIFICATION			
Duration		A	Full year
		S1	First semester
		S2	Second semester
Type of subject		TR	core
		COM	mandatory
		OP	optional
		LE	elective in liberal arts

**Table 3 (English version) ACCORDANCE OF THE CURRICULUM WITH THE DIRECTIVE 2013/55/UE  
DEGREE IN ARCHITECTURAL STUDIES + MASTER'S DEGREE IN ARCHITECTURE FROM THE UNIVERSITY OF A CORUÑA  
DEGREE IN ARCHITECTURAL STUDIES**

Year of studies	duration: year / semester	Code	Type of subject	Courses	Field of Studies	CREDITS / YEAR			HOURS / YEAR		
						ECTS Credits	Theoretical	Workshop / practical	Total hours	Theoretical	Workshop / practical
1	S1	2008	COM	Physics for Architecture 1	M. of C.M. and Structural Theory	6	3	3	60	30	30
	S1	2002	COM	Drawing in Architecture	Architectural Drawing	6	1,5	4,5	60	15	45
	S1	2004	COM	Mathematics for Architecture 1	Applied Mathematics	6	3	3	60	30	30
	S1	2003	COM	Descriptive Geometry	Architectural Drawing	6	1,5	4,5	60	15	45
	S1	2005	COM	Introduction to Architecture	Architectural Composition	6	3	3	60	30	30
	S2	2001	COM	Architectural Design 1	Architectural Projects	6	1,5	4,5	60	15	45
	S2	2007	COM	Analysis of Architectural Forms	Architectural Drawing	6	1,5	4,5	60	15	45
	S2	2014	COM	Architectural Form Geometry	Architectural Drawing	6	1,5	4,5	60	15	45
	S2	2009	COM	Mathematics for Architecture 2	Applied Mathematics	6	3	3	60	30	30
	S2	2010	COM	Construction 1	Architectural Constructions	6	3	3	60	30	30
<b>1<sup>st</sup> Year</b>						<b>60</b>	<b>22,5</b>	<b>37,5</b>	<b>600</b>	<b>225</b>	<b>375</b>
2	S1	2006	COM	Architectural Design 2	Architectural Projects	6	1,5	4,5	60	15	45
	S1	2012	COM	Architectural Analysis 1	Architectural Drawing	6	1,5	4,5	60	15	45
	S1	2013	COM	Physics for Architecture 2	M. of C.M. and Structural Theory	6	3	3	60	30	30
	S1	2020	COM	Construction 2	Architectural Constructions	6	3	3	60	30	30
	S1	2015	COM	History of Art	Architectural Composition	6	4,5	1,5	60	45	15
	S2	2011	COM	Architectural Design 3	Architectural Projects	9	2,25	6,75	90	22,5	67,5
	S2	2017	COM	Architectural Analysis 2	Architectural Drawing	9	2,25	6,75	90	22,5	67,5
	S2	2018	COM	Urbanism 1	Urbanism and T.O.	6	1,5	4,5	60	15	45
	S2	2019	COM	Structures 1	M. of C.M. and Structural Theory	6	3	3	60	30	30
	<b>2<sup>nd</sup> Year</b>						<b>60</b>	<b>22,5</b>	<b>37,5</b>	<b>600</b>	<b>225</b>
3	S1	2016	COM	Architectural Design 4	Architectural Projects	6	1,5	4,5	60	15	45
	S1	2022	COM	Construction 3	Architectural construction	6	3	3	60	30	30
	S1	2023	COM	Structures 2	M. of C.M. and Structural Theory	6	3	3	60	30	30
	S1	2024	COM	Urbanism 2	Urbanism and T.O.	6	1,5	4,5	60	15	45
	S1	2030	COM	Systems 1	Architectural construction	6	4,5	1,5	60	45	15
	S2	2021	COM	Architectural Design 5	Architectural Projects	6	1,5	4,5	60	15	45
	S2	2027	COM	Construction 4	Architectural construction	6	3	3	60	30	30
	S2	2028	COM	Structures 3	M. of C.M. and Structural Theory	6	3	3	60	30	30
	S2	2029	COM	Urbanism 3	Urbanism and T.O.	6	1,5	4,5	60	15	45
	S2	2025	COM	Theory of Architecture	Architectural Composition	6	4,5	1,5	60	45	15
<b>3<sup>rd</sup> Year</b>						<b>60</b>	<b>27</b>	<b>33</b>	<b>600</b>	<b>270</b>	<b>330</b>
4	S1	2026	COM	Architectural Design 6	Architectural Projects	6	1,5	4,5	60	15	45
	S1	2032	COM	Urbanism 4	Urbanism and T.O.	6	1,5	4,5	60	15	45
	S1	2033	COM	Construction 5	Architectural construction	6	3	3	60	30	30
	S1	2034	COM	Structures 4	M. of C.M. and Structural Theory	6	3	3	60	30	30
	S1	2035	COM	History of Architecture 1	Architectural Composition	6	4,5	1,5	60	45	15
	S2	2031	COM	Architectural Design 7	Architectural Projects	6	1,5	4,5	60	15	45
	S2	2037	COM	Construction 6	Architectural construction	6	3	3	60	30	30
	S2	2038	COM	Structures 5	M. of C.M. and Structural Theory	6	3	3	60	30	30
	S2	2039	COM	Systems 2	Architectural construction	6	4,5	1,5	60	45	15
	S2	2040	COM	History of Architecture 2	Architectural Composition	6	4,5	1,5	60	45	15
<b>4<sup>th</sup> Year</b>						<b>60</b>	<b>30</b>	<b>30</b>	<b>600</b>	<b>300</b>	<b>300</b>
5	S1	2036	COM	Architectural Design 8	Architectural Projects	9	1,5	7,5	90	15	75
	S1	2042	COM	Urbanism 5	Urbanism and T.O.	6	1,5	4,5	60	15	45
	S1	2043	COM	Foundations	M. of C.M. and Structural Theory	6	3	3	60	30	30
	S1	2045	COM	Construction 7	Architectural construction	4,5	1,5	3	45	15	30
	S1	2046	COM	Architecture Law	Architectural construction	4,5	1,5	3	45	15	30
	S2	2041	COM	Architectural Design 9	Architectural Projects	9	1,5	7,5	90	15	75
	S2		OP	Optional 1	Optional subjects	6	3	3	60	30	30
	S2		OP	Optional 2		4,5	1,5	3	45	15	30
	S2		OP	Optional 3		4,5	1,5	3	45	15	30
	S2	2059	COM	Final Degree Work	Architectural Composition. Architectural construction Architectural graphics. M. of C.M. and Structural Theory Architectural Projects Urbanism and T.O.	6	1	5	60	10	50
<b>5<sup>th</sup> Year</b>						<b>60</b>	<b>17,5</b>	<b>42,5</b>	<b>600</b>	<b>175</b>	<b>425</b>
<b>DEGREE IN ARCHITECTURAL STUDIES. TOTAL HOURS/ECTS mandatory subjects</b>						<b>285</b>	<b>113,5</b>	<b>171,5</b>	<b>2850</b>	<b>1135</b>	<b>1715</b>
<b>DEGREE IN ARCHITECTURAL STUDIES. TOTAL HOURS/ECTS mandatory + optional subjects</b>						<b>300</b>	<b>119,5</b>	<b>180,5</b>	<b>3000</b>	<b>1195</b>	<b>1805</b>

\* Elective Courses in Architecture

OPTIONAL SUBJECTS											
Year of studies	duration: year / semestre	Code	Type of subject	Courses	Field of Studies	CREDITS / YEAR			HOURS / YEAR		
						ECTS Credits	Theoretical	Workshop / practical	Total hours	Theoretical	Workshop / practical
5	S2	2051	OP	Advanced Representation in Architecture	Architectural Drawing	4,5	1,5	3	45	15	30
	S2	2053	OP	Graphic Communication in Architecture	Architectural Drawing	4,5	1,5	3	45	15	30
	S2	2052	OP	Complex Geometries in Architecture	Architectural Drawing	4,5	1,5	3	45	15	30
	S2	2047	OP	Mathematical Techniques for Architecture	Architectural Drawing	4,5	1,5	3	45	15	30
	S2	2048	OP	Advanced Construction	Architectural construction	6	3	3	60	30	30
	S2	2049	OP	Singular Structures	M. of C.M. and Structural Theory	6	3	3	60	30	30
	S2	2050	OP	Systems 3	Architectural construction	4,5	1,5	3	45	15	30
	S2	2054	OP	Industrial Design	Architectural Projects	6	3	3	60	30	30
	S2	2055	OP	Intervention in European Heritage	Architectural Projects	4,5	1,5	3	45	15	30
	S2	2058	OP	Complex Scale Architecture	Architectural Projects	4,5	1,5	3	45	15	30
	S2	2056	OP	Landscape and Sustainable Habitat	Architectural ProjectsUrbanism and T.O.	6	3	3	60	30	30
	S2	2060	OP	Contemporary Urban Actions	Urbanism and T.O.	6	3	3	60	30	30
	S2	2057	OP	Territorial Planning	Urbanism and T.O.	4,5	1,5	3	45	15	30
	S2	2061	OP	Theory of Contemporary Intervention	Architectural Composition	4,5	1,5	3	45	15	30
	S2	2062	OP	Basic Habitat		6	3	3	60	30	30

\*Optional subjects to be chosen from the school offer

\*Electives in Liberal arts

**MASTER'S DEGREE IN ARCHITECTURE**

Year of studies	duration: year / semester	Code	Type of subject	Courses	Field of Studies	CREDITS / YEAR			HOURS / YEAR		
						ECTS Credits	Theoretical	Workshop / practical	Total hours	Theoretical	Workshop / practical
6	S1	9005	COM	Advanced Architectural Design	Architectural Projects	9	1,5	7,5	90	15	75
	S1	9004	COM	Architectural Review	Architectural Composition	3	2	1	30	20	10
	S1	9006	COM	Urban Intervention Tools	Urbanism and T.O.	3	1	2	30	10	20
	S1	9001	COM	Construction Design	Architectural construction	6	3	3	60	30	30
	S1	9002	COM	Structural Design	M. of C.M. and Structural Theory	6	3	3	60	30	30
	S1	9003	COM	Systems Design	Architectural construction	3	1,5	1,5	30	15	15
	S2	9007	COM	<b>Master's Degree Final Project</b>	Architectural Composition Architectural construction Architectural graphics M. of C.M. and Structural Theory Architectural Projects Urbanism and T.O.	30	1,28	28,72	300	12,8	287,2
<b>MASTER'S DEGREE IN ARCHITECTURE. TOTAL HOURS/ECTS mandatory subjects</b>						<b>60</b>	<b>13,28</b>	<b>46,72</b>	<b>600</b>	<b>132,8</b>	<b>467,2</b>
<b>DEGREE + MASTER. TOTAL HOURS/ECTS mandatory subjects</b>						<b>345</b>	<b>126,78</b>	<b>218,22</b>	<b>3450</b>	<b>1267,8</b>	<b>2182,2</b>
<b>DEGREE + MASTER. TOTAL HOURS/ECTS mandatory + optional subjects</b>						<b>360</b>	<b>132,78</b>	<b>227,22</b>	<b>3600</b>	<b>1327,8</b>	<b>2272,2</b>

**CLARIFICATION**

Leyend

Duration	A	Full year
	S1	First semester
	S2	Second semester
Type of subject	TR	core
	COM	mandatory
	OP	optional
	LE	elective in liberal arts