SYLLABUS OF THE ARCHITECTURE DEGREE AT UNIVERSITY OF A CORUÑA (1995)

CORE MODULES								
Cycle	Year	Name	University module	Credits			Brief description of the content	Relation to knowledge areas
				Total	Theory	Practice		
1	2	Architectural projects	Projects II	18T +3A	3	18	Introduction to theory and practice of architecture. Foundations of architectural projects. Composition elements	Architectural projects
1	1	Theory and history of architecture	Introduction to architecture	9	3	6	Introduction to architecture. Idea of architecture. Introduction to history of architecture. Contemporaneous architecture. Architecture, city and land.	Architectural composition
	2		Art history	6T+3A	9		Art history. Art through history: ancient history, middle age, modern age, contemporaneous age.	Architectural composition
1	2	Construction	Construction II	15	9	6	Construction materials (Science of construction materials). Project and development of construction systems in architecture and urbanism. Construction regulation.	Architectural constructions. Construction engineering
1	1	Physical foundations of architecture	Physics for architecture I	6T+1.5A	4.5	3	Introduction to building facilities. General mechanic. Fluid mechanics. Acoustics. Thermodynamics. Electricity. Electromagnetism. Colour and light theories. Theoretical basis for physical environment.	Continuum mechanics and theory of structures. Applied physics. Electromagnetism. Optics
1	2	Introduction to building structures	Structures I	9T+3A	9	3	Introduction to building structures. Types of structures. Mechanics. Solid mechanics. Elasticity and plasticity. Strengths of materials.	Continuum mechanics and theory of structures. Architectural constructions
1	1	Mathematical foundations for	Mathematics for	9	6	3	Algebra. Calculation. Differential equation. Measurement geometry.	Applied mathematics. Mathematical analysis.

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		architecture	architecture I				Differential and analytical geometry. Numerical calculation. Statistics.	Computer science. Artificial intelligence. Statistics and operative research
1	2	Urbanism	Urbanism I	9	6	3	Introduction to urban planning and urban project. Physical and social environment. Theory and history of urban planning.	Urban planning
1	1	Graphic expression for architecture	Descriptive geometry I	6T+1.5A	3	4.5	Foundations of architectural drawing. Descriptive geometry. Land representation.	Graphic expression. Architectural composition
1	1		Drawing I	15	3	12	Analysis of architectural shapes. Architectural drawing. Computer-aided design.	Graphic expression. Architectural composition
2	4	Architectural projects	Projects IV	15T+3A	3	15	Project and city. Theory and practice of architecture through other disciplines. Urban space. Collective housing. Regulations.	Architectural projects
	5		Projects V	18T+3A	3	18	Project and land. Theory and practice of architecture through other disciplines. Joint projects. Method, organisation and management of projects. Execution projects.	Architectural projects
2	5	Final Project	Final Project	3T	1	2	Development of an architectural project which includes knowledge from all areas.	Architectural composition. Architectural construction. Graphic expression. Continuum mechanics and theory of structures. Architectural projects. Urban planning
2	3	Architectural composition	Theory of architecture	9T	9		Theory of architectural composition. Aesthetics.	Architectural composition
	4		History of architecture I	3T+1.5A	4.5		History of architecture and urbanism. Architecture and	Architectural composition

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							historical city. Architecture and contemporaneous city.	
2		Architectural constructions						
	3		Construction III	10.5T+1.5A	6	6	Constructive architectural systems. Structural systems: materials, project, dimensions, pathology, programming and monitoring. Regulation	Architectural construction
	4		Construction IV	10.5T+1.5A	6	6	Constructive architectural systems. Siding and coating: materials, project, dimensions, pathology, programming and monitoring. Regulation	Architectural construction
2	2	Building structures	Structures II	12	9	3	Building structures: types, analysis, project, development. Regulation. Quality control and pathology. Soil mechanics	Continuum mechanics and theory of structures. Architectural structures. Construction engineering.
2	3	Urbanism	Urbanism II	9	6	3	Urban planning. Urban legislation. Legal architecture. Environmental impact. Landscape	Urban planning. Architectural composition
	4		Urbanism III	6T+3A	6	3	Urban exploration. Morphological analysis. Built land. City construction. Urban project. Valuation. Urban economy	Urban planning. Architectural composition
2	2	Conditioning and services	Installations	12	6	6	Installations project and development. Environmental conditioning techniques. Acoustics. Electrical installations. Electrical and light engineering. Hydraulic installations. Quality control	Architectural constructions. Electrical engineering. Hydraulic engineering

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COMPULSORY MODULES							
Cycle	Year	Name	Credits			Brief description of the content.	Relation to knowledge areas
			Total	Theory	Practice		
1	1	Projects I	9	3	6	Introduction to the architectural project. The project. The habitat as a problem in architecture.	Architectural projects
1	1	Construction I	9	3	6	Introduction to the construction: systems, elements and materials of construction.	Architectural constructions
1	1	Physics Foundations in Architecture II	7.5	4.5	3	General mechanics advanced. Statics. Beans and porches. Mass geometry.	Continuum mechanics and structure theory
1	1	Mathematical Foundations in Architecture	9	6	3	Calculus. Differential equations advanced.	Applied mathematics
1	1	Descriptive Geometry	7.5	3	4.5	Descriptive geometry advanced. Perspective. Land representation advanced.	Architectural graphic expression
1	2	Drawing II	15	3	12	Architectural drawing advanced. Graphic analysis. Technics and means of representation. Computer-assisted drawing advanced.	Architectural graphic expression
2	3	Projects III	18	3	15	Project foundations. Introduction to project execution.	Architectural projects

OPTIONAL MODULES					
Name (2)	Credits			Brief description of the content	Relation to knowledge areas
	Total	Theory	Practice		
Graphic Design (3rd year)	9			Development of systems and representation technics and design. Assisted design. Photography and audio-visual medias. Signalling.	Architectural graphic expression.
Industrial Design (4th year)	9			Theory and technics of applied Arts in architecture. Industrial design. Furniture design.	Architectural projects.
Restauration (5th year)	9			Architectural interventions in the historical Heritage. Theory, technics and project. Monuments restoration. Archaeology.	Architectural composition. Architectural constructions. Architectural projects.
Theory of composition (5th year)	9			Methodology of architectural composition. Theory of forms. Critics.	Architectural composition. Architectural projects.

Industrial Architecture (2nd cycle)	9			Architecture of industrial buildings. Container architecture. Sports architecture.	Architectural constructions. Architectural projects.
Interior design (2nd cycle)	9			Interior design. Furniture and its connection to the interior design. Ergonomics. Anthropometry.	Architectural constructions. Architectural graphic expression. Architectural projects.
History of Galician architecture (2nd cycle)	9			The architecture in Galicia, through history. Periods and styles.	Architectural composition.

OPTIONAL MODULES					
Name (2)	Credits			Brief description of the content	Relation to knowledge areas
	Total	Theory	Practice		
Drawing III (3rd year)	9			Architectural and urbanism drawing advances. Cartography. Solar geometry. Assisted design.	Graphic architectural expression.
Urban planning I (4th year)	9			Planning methodology I. Analysis and project.	Urbanism and spatial planning.
Urban planning II (5th year)	9			Planning methodology II. Analysis and project.	Urbanism and spatial planning.
Urbanisation projects	9			Projects of urbanisation. Project, calculation and construction of installations and urban elements.	Urbanism and spatial planning.
Gardening and landscape (2nd cycle)	9			Systems of free space and green zones in the city. Landscape. Analysis and intervention proposals.	Urbanism and spatial planning.
Rural planning (2nd cycle)	9			Analysis, projecting and planning of rural space.	Urbanism and spatial planning.
Topography (2nd cycle)	9			Introduction to the topography. Photogrammetry. Technics. Interpretation and representation.	Graphic architectural expression.
Urban legislation and economics (2nd cycle)	9			Introduction to the legislation and the urban economics. Application to the construction and the planning.	Urbanism and spatial planning. Applied economics. Administrative Law.

OBLIGATORY MODULES BY THE UNIVERSITY							
Cycle	Year	Name	Credits			Brief description of the content	Relation to knowledge areas
			Total	Theory	Practice		

2	5	Construction V	15	9	6	Constructive analysis: the construction technics in the architectonical typology. Constructive design in the project of execution.	Architectural constructions
2	4	Structures III	15	9	6	Structures of constructions and foundations: structures of reinforced concrete: types, analysis, project, execution. Regulations. Quality control and pathology. Soil mechanics advanced.	Continuum mechanics and Theory of Structures
2	4	History of architecture II	4.5	4.5		History of architecture and urbanism. Architecture and contemporary cities.	Architectural composition

OPTIONAL MODULES					
Name (2)	Credits			Brief description of the content	Relation to knowledge areas
	Total	Theory	Practice		
Structures project I (3rd year)	9			Structural typologies. Project of structures. Assisted design.	Continuum mechanics and Theory of structures.
Mathematical methods in architecture (4th year)	9			Theory of curves and surfaces. Partial differential equations. Numerical methods of resolution of differential equations.	Applied mathematics.
Structures IV (5th year)	9			Long span structures. High-rise structures. Lightweight structures.	Continuum mechanics and Theory of structures.
Project of installations (5th year)	9			Design and calculations of installation in architecture. Special installations. Specific installation projects. Intelligent buildings.	Architectural constructions. Architectural projects.
Foundations (2nd cycle)	9			Soil mechanics and foundations Advanced. Special foundations.	Soil engineering. Continuum mechanics and Theory of structures.
Structures projects II (2nd cycle)	9			Project of execution of construction structures.	Continuum mechanics and Theory of structures.
Industrialisation and prefabrication (2nd cycle)	9			Industrialized construction systems. High technology systems. Industrialisation and prefabrication.	Architectural constructions.
Project management for contsruction	9			Organisation of works. Economics, organisation and management of works and enterprises. Measurements and Budgets.	Architectural constructions.
Design of structural systems (2nd cycle)	9			Design of structural systems. Assisted design.	Architectural graphic expression. Continuum mechanics and Theory of

					structures.

1.B
TEMPORAL ORGANISATION OF LEARNING
The Studies Plan distributes the subjects per academic year, indicating which is a reasonable progression for the learning process and without any preference among the modules, according to the following core and obligatory modules of the University:

First Cycle	Modules
First Year	Projects I Introduction to Architecture Construction I Basic Physics in Architecture I Basic Physics in Architecture II Basic Mathematics in Architecture I Basic Mathematics in Architecture II Descriptive Geometry I Descriptive Geometry II Drawing I
Second Year	Projects I History of Art Construction II Structures I Urbanism I Drawing II
Second Cycle	Modules
Third Year	Projects III Theory of Architecture Construction III

	Structures II Urbanism II Installations
Fourth Year	Projects IV History of Architecture I Construction IV Structures III Urbanism III History of Architecture II
Fifth Year	Projects V Final Degree Work Construction V
Without limiting the foregoing , to enroll to the second cycle, it is necessary to have successfully passed all the modules corresponding to 75% of the first cycle credits. This percentage may be reduced, specifically in particular or special cases by the Teaching Commission of the Center.	
1.C Teaching Period A teaching period of five years is determined in the Studies Plan.	

1.D
Recognition and Validation Mechanisms

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The change from the old program to the new one allows the student to recognize the old modules in order to incorporate them to the new one. To this end, the adaptation between the Plan of 1984 and the present one is regulated by the Board of Equivalents, which is accompanied, without any prejudice that any other validation not included in the present Board must be decided in any case by the Validation Commission.

ADAPTATION BOARD

PLAN 1984	PLAN 1992
Composition elements	Projects I + Projects II
Projects I	Projects III
Projects II	Projects IV
Projects III	Projects V
Intro. to the Architecture and Urbanism	Introduction to the Architecture
History of Art	History of Art
Esthetics and Composition	Theory of Architecture
History of Architecture and Urbanism	History of Architecture I and II
Intro. to the Construction	Construction I
Construction I	Construction II
Construction II	Construction III
Construction III	Construction IV
Construction IV	Construction V
Mathematics	Basic Mathematics I and II
Mathematics Advanced	Mathematical Methods (optional)
Physics	Basic Physics I and II
Physics Advanced	Structures I
Calculation of Structures I	Structures II
Calculation of Structures II	Structures III
Calculation of Structures III	Structures IV
Soil mechanics and Foundations	Foundations
Electrical engineering, lightning technology and installations	
Conditioning Technics	Installations

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Structures project	Installations Project
Project management for constructions and enterprises	Project management for constructions
Industrialization and prefabrication	Industrialization and prefabrication
Introduction to the Urbanism	Urbanism I
Urbanism I	Urbanism II + Urbanism III
Urbanism II	Urban Planning I
Urbanism III	Urban Planning II
Gardening and Landscape	Gardening and Landscape
Training in urbanism and urban installations	Projects of Urbanism
Economics	Sociology and urban Economics
Analysis of Architectural Forms	Drawing I
Architectural Drawing	Drawing II
Descriptive Geometry	Descriptive Geometry
Geometry of the Architectural Form	Graphic Design, or Drawing III, or Drawing of structural systems
The remaining modules of the Plan of 1984 may be validated by elective credits, or by the optional modules of the present Plan.	