FIRST YEAR

ESCUELA TECNICA SUPERIOR DE ARQUITECTURA DE VALENCIA

COURSE DESCRIPTION (B.O.E. 22 MARCH 1979)

I. GENERAL DATA:			
Acronym:	**Subject:**		**Code:**
ALG	Linear Algebra		8211
			Study Plan:
			4 (1979)
Course:	**Semester:**	**Status:**	**Credits:**
1	A+B	Mandatory	14 credits = 8,4 (TA) + 5,6 (PA)
Director of the Course:			**Department:**
José Luis Morera Fos			Applied Mathematics

II. GENERAL DESCRIPTION OF THE SUBJECT:

This course enables the student to develop the critical sense inherent in any mathematical discipline in order to improve the capability of abstraction, analysis, synthesis and critical thinking for model approaches used in further topics such as Physics, Construction, Structures, or Economics. The course focuses on problem-solving ability by introducing calculus of approximate numerical solutions and presenting tools and methods for problem-solving. Concepts include diagonalizable matrices, inertia tensors, analytical treatment of curves and surfaces, double and triple integrals, integrals over trajectories and surfaces, integral theorems of vector analysis, Green, Stokes, Gauss, or partial derivatives of functions of several variables and locate its ends. The student will acquire key concepts of the different types of multivariable integrals (curvilinear, and multiple surface) to successfully face the problems of structures, static, dynamic, field theory, heat transfer, strength of materials, fluids, elasticity, or electromagnetism. The course combines theory and practical exercises.

III. ORGANIZATION OF THE COURSE UNITS :

Information not available

I. GENERAL DATA:			
Acronym:	*Subject:*		*Code:*
CAL	Infinitesimal Calculus		8219
			Study Plan:
			4 (1979)
Course:	*Semester:*	*Status:*	*Credits:*
1st	A+B	Mandatory	14 credits = 8,4 (TA) + 5,6 (PA)
Director of the Course:			*Department:*
Alfred Peris Manguillot			Applied Mathematics

II. GENERAL DESCRIPTION OF THE SUBJECT:

This course studies mathematical concepts applied to the architecture field that allows the student to further understand subjects such as Physics, Construction, Material strengths and stresses, or Structures. Among others, the program includes concepts such as the numerical calculation of roots of equations, area and volume calculation, curves in space, gradient vectors tangent to plane and surface, as well as physical and geometrical applications of differential equations. By studying calculus, students develop notions of continuity and differentiability of functions of one variable, fundamental theorem of integral calculus, Riemann integral, numerical integration methods, notions of topology, limits, derivatives, Taylor formula, vector speed, speed and acceleration of a curve settings, and differential equations of first order. Applications such as free fall of a body as well as growth dynamics and cooling will be able to apply directly following these concepts. The course combines theory and practical exercises.

III. ORGANIZATION OF THE COURSE UNITS :

Information not available

I. GENERAL DATA:			
Acronym:	*Subject:*		*Code:*
FIS	Physics		8229
			Study Plan:
			4 (1979)
Course:	*Semester:*	*Status:*	*Credits:*
1st	A+B	Mandatory	14 credits = 8,4 (TA) + 5,6 (PA)
Director of the Course:			*Department:*
Juan Carlos Carrión Mondejar			Applied Physics

II. GENERAL DESCRIPTION OF THE SUBJECT:

The course focuses on developing the applied physics for future concepts such as those developed in Structures, Construction, or fluids and mecaniques through theoretical and practical exercises. The course provides the student with the basic knowledge of architectural physical phenomena and general mechanics such as slide and fix vector systems, scalar, vector and tensor fields and mass geometry. Additionally, mechanical principles such as kinematics, dynamics, fluid mechanics, pressure thermodynamics systems and processes, acoustics, sound waves and motion, as well as electric energy processes, are studied throughout the course.

III. ORGANIZATION OF THE COURSE UNITS :

Information not available

I. GENERAL DATA:			
Acronym:	*Subject:*		*Code:*
DTE	Technical Drawing		8224
			Study Plan:
			4 (1979)
Course:	*Semester:*	*Status:*	*Credits:*
1st	A+B	Mandatory	16,8 credits = 8,4 (TA) + 8,4 (PA)
Director of the Course:			*Department:*
Pablo Navarro Esteve			Graphic Expression in Architecture

II. GENERAL DESCRIPTION OF THE SUBJECT:

This course examines diverse graphic means of architectural and systems representation. Concepts such as module, setting, scale, interior space representation, concept of section view and architectonic dimensioning will be learnt throughout the year. The necessary concepts to develop the descriptive, illustrative and comprehensive representation of architecture shall be obtained, utilizing manual as well as computer aided tools for the learning process.

III. ORGANIZATION OF THE COURSE UNITS :

Information not available

I. GENERAL DATA:			
Acronym:	*Subject:*		*Code:*
DES	Descriptive Geometry		8232
			Study Plan:
			4 (1979)
Course:	*Semester:*	*Status:*	*Credits:*
1st	A+B	Mandatory	14 credits = 11,2 (TA) + 2,8 (PA)
Director of the Course:			*Department:*
Felipe Soler Sanz			Graphic Expression in Architecture

II. GENERAL DESCRIPTION OF THE SUBJECT:

This course involves understanding the systems focused on the representation of architectural ensembles: concepts of projection, dihedral system, basis of both orthogonal and oblique axonometric systems, as well as the use of conic perspective. Among others, aids the student in the assimilation of shadows, the use of dihedral system to represent intersections between planes and straight lines, the understanding of parallel and perpendicular relations, changes of plane, turns and folds, as well as measurement of distances and angles. Geometric principles relative to dimensioning systems are used as representation tools for pitched roofs, terrains and earthwork as well as its use in the analysis of polyhedral surfaces (regular, semi-regular and special meshes), radial surfaces (conical and cylindrical), surfaces of revolution and warped, ruled surfaces. In addition, it is also the purpose of this course to learn how all these surfaces intersect. Hand drafting as well as computer aided progress are used to study the different concepts in the form of exercises.

III. ORGANIZATION OF THE COURSE UNITS :

Information not available

I. GENERAL DATA:			
Acronym:	**Subject:**		**Code:**
AFO	Architectural Form Analysis		8214
			Study Plan:
			4 (1979)
Course:	**Semester:**	**Status:**	**Credits:**
1st	A+B	Mandatory	25,2 credits = 14 (TA) + 11,2 (PA)
Director of the Course:			**Department:**
Ángela García Codoñer			Graphic Expression in Architecture

II. GENERAL DESCRIPTION OF THE SUBJECT:

Introduction to the graphic architectural expression by applying a methodology based on the analysis of forms, relations and interactions applied to the human body. The purpose of this class is to analyze and understand the relationship between the architectural model and its urban context: framing the object, understanding the gestures, the proportions and the compositions of the volume within the space. Techniques such as chiaroscuro, color and architectural models, as well as an introduction to computer aided programs are used as a mean of architectural expression.

III. ORGANIZATION OF THE COURSE UNITS :

Information not available

SECOND YEAR

ESCUELA TECNICA SUPERIOR DE ARQUITECTURA DE VALENCIA

COURSE DESCRIPTION (B.O.E. 22 MARCH 1979)

I. GENERAL DATA:			
Acronym:	**Subject:**		**Code:**
ECO	Elements of Composition		8227
			Study Plan:
			4 (1979)
Course:	**Semester:**	**Status:**	**Credits:**
2nd	A+B	Mandatory	25,2 credits = 14 (TA) + 11,2 (PA)
Director of the Course:			**Department:**
Juan María Moreno Seguí			Architectural Projects

II. GENERAL DESCRIPTION OF THE SUBJECT:

This subject is considered the first year of Architectural Design Studio, within the Department of Architectural Design. The course aims to develop the student's understanding of architectural space through consistent project exercises by means of graphical and theoretical analysis of spatial patterns. The exercises are conducted on well defined programs ranging from single-family housing, row-housing, and aggregate of housing cells in multifamily blocks with the consequent development of the generated morphology. The exercises comprise the process of analysis-synthesis-analysis, and serves as an introduction to the theory and practice of architecture. Concepts such as observation, analysis, and interpretation introduce the student to the knowledge and use of the architectural terms and relations. Geometry, proportion and order are developed through the different architectural space representation techniques.

III. ORGANIZATION OF THE COURSE UNITS :

Information not available

I. GENERAL DATA:			
Acronym:	*Subject:*		*Code:*
AMA	Mathematics Extension		8213
			Study Plan:
			4 (1979)
Course:	*Semester:*	*Status:*	*Credits:*
2nd	A+B	Mandatory	14 credits = 8,4 (TA) + 5,6 (PA)
Director of the Course:			*Department:*
José Bonet Solves			Applied Mathematics

II. GENERAL DESCRIPTION OF THE SUBJECT:

The main goal of this course is to provide a more in depth mathematical base for the understanding and problem-solving of structural exercises, acoustics, heat transmission and statistics. The concepts developed throughout this course include a further study of infinitesimal calculus for relative and conditioned extremes, differential equations with methods of numerical approximation, analytical methodologies, curvilinear integrals and resolution of curves and surfaces.

III. ORGANIZATION OF THE COURSE UNITS :

Information not available

I. GENERAL DATA:			
Acronym:	*Subject:*		*Code:*
AFI	Physics Extension		8212
			Study Plan:
			4 (1979)
Course:	*Semester:*	*Status:*	*Credits:*
2nd	A+B	Compulsory	14 credits = 8,4 (TA) + 5,6 (PA)
Director of the Course:			*Department:*
Ana LLopis Reyna			Applied Physics

II. GENERAL DESCRIPTION OF THE SUBJECT:

This course focuses on the physical basis of construction and the fundamentals and theories of Physics. It completes the necessary knowledge of the technical subjects which develop the fitting out and services, as well as provide basic cover to calculus hypothesis different from the static. The contents of the course covers in depth thermodynamics, psychometry, phase changes and humid air; heat transmission, conduction, convection and thermal radiation; acoustics, such as acoustical physics, architectural acoustics, wave length and acoustic insulation calculation; elasticity; tensions; illumination. The course combines theoretical explanation and problem-solving exercises.

III. ORGANIZATION OF THE COURSE UNITS :

Information not available

I. GENERAL DATA:			
Acronym:	**Subject:**		**Code:**
HAR	Art History		8234
			Study Plan:
			4 (1979)
Course:	**Semester:**	**Status:**	**Credits:**
2nd	A+B	Compulsory	14 credits = 11,2 (TA) + 2,8 (PA)
Director of the Course:			**Department:**
Violeta Montoliu Soler			Architectonical Composition

II. GENERAL DESCRIPTION OF THE SUBJECT:

The course focuses on the study of History of Art and serves as an introduction to History of Architecture and Urban Planning - I. Throughout the study of artists and the analysis of their work (features, components and historical-theoretical evolution), students acquire a knowledge of the history of arts in order to understand concepts implemented during training (space, light, volume or perspective). Additionally, students develop their artistic sensibility and observation skills and are trained to acquire a basic knowledge of world culture and its economic, environmental, social or ideological foundations. Contents for this class include the study of Art History from Greece to the 20th Century: geographical framework; the Classical Culture, Greece and the world of the form; the Roman pragmatism and the space of Architecture; Christianity and the survival and rupture of the classical world, the basilica and the iconography; Islam and the arrival of a new culture, the Middle Ages and the awakening of Europe, the cathedral and the monastery, art and liturgy; the Renaissance, a revision of the Roman legacy, architectural theory and practice, plastic art as a science; the Baroque, the world of the senses and the world of the reason; and finally Contemporary art. The course is a combination of theoretical study as well as practical examples through images and observation.

III. ORGANIZATION OF THE COURSE UNITS :

Information not available

I. GENERAL DATA:			
Acronym:	*Subject:*		*Code:*
MCO	Construction Materials		8243
			Study Plan:
			4 (1979)
Course:	*Semester:*	*Status:*	*Credits:*
2nd	A+B	Mandatory	16,8 credits = 11,2 (TA) + 5,6 (PA)
Director of the Course:			*Department:*
			Architectural Constructions

II. GENERAL DESCRIPTION OF THE SUBJECT:

Overview of architectural material properties, assemblies and application for an understanding of the materials' behavior and an evaluation of the suitability of a material based on its properties, its assembly and its function. Lecture classes and lab courses are combined to analyze and compare the physical and chemical properties of the different materials studied. The topics covered include typology, nature, properties, forms, manufacturing processes, regulations, and applications of materials in Architecture, microstructure and properties or the materials; metals such as cast-iron metals, steel, non-siderurgical metals, aluminum, copper and its alloys, lead, and zinc; microstructure of rocks, natural stones, granite, limestone, sandstone, slate and marble; aggregates; inorganic conglomerates plaster, lime, cement; conglomerates, pastes, mortars and concretes; porous ceramics; gel microstructure; bituminous materials; plastics, elastomers, silicones; and composite materials, its structure and properties.

III. ORGANIZATION OF THE COURSE UNITS :

Information not available

I. GENERAL DATA:			
Acronym:	*Subject:*		*Code:*
EYC	Aesthetics and Composition		8228
			Study Plan:
			4 (1979)
Course:	*Semester:*	*Status:*	*Credits:*
2nd	A+B	Mandatory	14 credits = 8,4 (TA) + 5,6 (PA)
Director of the Course:			*Department:*
Margarita Fernández Gómez			Architectonical Composition

II. GENERAL DESCRIPTION OF THE SUBJECT:

This course provides the opportunity for the student to develop a methodology to address critical analysis and to be able to endeavor in the architectural design process. Throughout theoretical and practical sessions the program aims to stimulate critical thinking through an understanding of the architecture of the 20th century, endowing students with cross analysis tools and creative synthesis to face the analysis of a project. The thematic of the course is structured mainly in, first the study of compositional methods and architectural options, and second the study of the different parameters of architecture such as location, function, geometry, structure, form, space, promenade, light and materiality. The study of each parameter and the relation between them enables students to develop the projective mechanisms that reside behind the design intent of a project. Introducing the student to research processes and methodologies, theories, as well as techniques and solutions, students are able to extrapolate the ideas despite the original context.

III. ORGANIZATION OF THE COURSE UNITS :

Information not available

I. GENERAL DATA:			
Acronym:	**Subject:**		**Code:**
IN1	English Language I		8236
			Study Plan:
			4 (1979)
Course:	**Semester:**	**Status:**	**Credits:**
2nd	A+B	Elective	11,2 credits = 5,6 (TA) + 5,6 (PA)
Director of the Course:			**Department:**
Aurora Astor Guardiola			Applied Linguistics

II. GENERAL DESCRIPTION OF THE SUBJECT:

The main objective of this course is to provide the student with the ability to develop a background to express the creative process in a foreign language and therefore provide more flexibility and broader range of forms of expression. This course will focus on learning English architectural vocabulary that will also allow for the future architect to better understand international publications, conferences, lectures, etc. The topics range from basic architectural knowledge and vocabulary to more specific material and construction aspects. The student will have the necessary instruments to develop research and practice architecture in English speaking countries.

III. ORGANIZATION OF THE COURSE UNITS :

Information not available

THIRD YEAR

ESCUELA TECNICA SUPERIOR DE ARQUITECTURA DE VALENCIA

COURSE DESCRIPTION (B.O.E. 22 MARCH 1979)

I. GENERAL DATA:			
Acronym:	*Subject:*		*Code:*
PRI	Projects I		8250
			Study Plan:
			4 (1979)
Course:	*Semester:*	*Status:*	*Credits:*
3rd	A+B	Mandatory	25,2 credits = 14 (TA) + 11,2 (PA)
Director of the Course:			*Department:*
Ignacio Bosch Reig			Architectural Projects

II. GENERAL DESCRIPTION OF THE SUBJECT:

This subject is considered the second year of Architectural Design Studio within the Department of Architectural Design. Focusing on the architectural concept, the idea and its expression, this studio course allows the student to develop the basis of the design process meeting specific criteria and program requirements that include functional, technical, cultural, aesthetic, and environmentally relates strategies in a proposed context. The social and cultural impact of the project and its context will have a significant role. Any step in the project will require a determination of tools and procedures for representation and expression of these proposals, as well as the exhibition of the criteria on which the architectural project is based. The syllabus of the course is divided into: 1. concept, idea and expression; 2. physical and cultural environment; 3. activity and function; 4. space and form; 5. matter and technique; and 6. systems, processes and languages.

III. ORGANIZATION OF THE COURSE UNITS :

Information not available

I. GENERAL DATA:			
Acronym:	**Subject:**		**Code:**
ST1	Structures Design and Analisys		8216
			Study Plan:
			4 (1979)
Course:	**Semester:**	**Status:**	**Credits:**
3rd	A+B	Mandatory	16,8 credits = 11,2 (TA) + 5,6 (PA)
Director of the Course:			**Department:**
Agustín Pérez García			Continuum Mechanics and Structures Theory

II. GENERAL DESCRIPTION OF THE SUBJECT:

The syllabus includes different types of equilibria and stresses as well as an introduction to simple bar sizing. The following will be analyzed:
1. Structural modeling, materials geometry, links, stresses and reactions.
2. Static equilibrium equations, actions and reactions, study of the staticity of a structure, graphic staticity, and calculations of reactions in a isostatic structure.
3. Axial stresses and deformations in bars and calculations of truss structures with node joints.
4. Flexural stresses, concept of bending stress, shear forces and bending moments, calculation of effort diagrams, elastic deformation in flexion, and calculations of beam deformation.
5. Combined axial and flexural stress: arcades. Calculations of stresses and deformations in isostatic arcade structures.
6. Distribution of stresses in different sections under axial, shear, flexural and torsion stresses; principal stresses; Mohr's circle; Deformation Vector; Hooke's law and Lamé functions.
7. Distribution of tensions in plastic state, plastic calculations, elastoplastic analysis of a section, and neutral axis.
8. Introduction to dimensioning of bars, characteristic strength of materials, ultimate limit state, safety factors, serviceability limit state, allowable deformations, and introduction to design of wood, steel and concrete bars.
9. Elastic instability of bars and buckling, Euler's formula, critical load, effective length of axial buckling, critical tension and introduction to axial buckling calculations.

III. ORGANIZATION OF THE COURSE UNITS :

Information not available

I. GENERAL DATA:			
Acronym:	*Subject:*		*Code:*
HAU	Architecture and Urbanism History		8233
			Study Plan:
			4 (1979)
Course:	*Semester:*	*Status:*	*Credits:*
3rd	A+B	Mandatory	14 credits = 11,2 (TA) + 2,8 (PA)
Director of the Course:			*Department:*
Carmen Jordá Such			Architectonical Composition

II. GENERAL DESCRIPTION OF THE SUBJECT:

The syllabus includes the study of the most renowned buildings and projects in architecture history, from the classical era to the French Revolution and its most significant architects, extrapolating lessons from architectural projects that can be useful nowadays. In the last part of the course, special emphasis will be made in the period between the beginning of the Industrial Revolution and the contemporary decades. The theoretical knowledge is complemented with exercises and actual experiences of historical architecture in the city of Valencia.

III. ORGANIZATION OF THE COURSE UNITS :

Information not available

I. GENERAL DATA:			
Acronym:	*Subject:*		*Code:*
CT1	Constructions I		8221
			Study Plan:
			4 (1979)
Course:	*Semester:*	*Status:*	*Credits:*
3rd	A+B	Mandatory	16,8 credits = 11,2 (TA) + 5,6 (PA)
Director of the Course:			*Department:*
Ángel Vallejo Hernández			Architectural Constructions

II. GENERAL DESCRIPTION OF THE SUBJECT:

Introduction to the principles and techniques used throughout the construction phases of a building from its theoretical concept to its future application and materialization in the form of construction detail solutions. For that purpose the building is divided into the following areas: building contact with the terrain, building enclosure of facade and building roof.

III. ORGANIZATION OF THE COURSE UNITS :

Information not available

I. GENERAL DATA:			
Acronym:	*Subject:*		*Code:*
IUR	Introduction to Urbanism		8240
			Study Plan:
			4 (1979)
Course:	*Semester:*	*Status:*	*Credits:*
3rd	A+B	Mandatory	8,4 credits = 5,6 (TA) + 2,8 (PA)
Director of the Course:			*Department:*
Enrique Giménez Baldrés			Urbanism

II. GENERAL DESCRIPTION OF THE SUBJECT:

The syllabus is divided in three blocks. The first on the general knowledge of the urban planning discipline and the identification of the different morphologies of the city and its territory. The second on the introduction of the concept of landscape, both in its urban as well as its territorial version. The third on the proactive intervention of the different basic scenarios of the contemporary city. Seven thematic units in total which are developed in thirty lessons and seven class projects to be integrated into coordinated practical projects.
The work will focus preferably, but not exclusively, on the urban and territory issues in the Valencian Region and on the development of the skills of remote analysis of other realities.

III. ORGANIZATION OF THE COURSE UNITS :

Information not available

I. GENERAL DATA:			
Acronym:	*Subject:*		*Code:*
EIA	Economy		8225
			Study Plan:
			4 (1979)
Course:	*Semester:*	*Status:*	*Credits:*
3rd	A+B	Mandatory	8,4 credits = 5,6 (TA) + 2,8 (PA)
Director of the Course:			*Department:*
Manuel Pérez Montiel			Business Organization

II. GENERAL DESCRIPTION OF THE SUBJECT:

This course is designed for the students to acquire a comprehensive understanding of the basic concepts of General Economics (allocation of scarce resources, economic agents, the market and government, national income, etc) as well as Urban Economics (relationship between economy and space agents of the urban system, determination of urban income, land value, cost-benefit analysis, urban growth). For this, the course will relate the studied concepts to the construction and architectural design field, therefore analyzing the its structure, size, performance and expectations. The concepts of real estate, land use and cost are studied, which this will allow students to analyze other subjects from an economic approach. The course combines theory and practice, which includes problem solving and case study analysis.

III. ORGANIZATION OF THE COURSE UNITS :

Information not available

I. GENERAL DATA:			
Acronym:	*Subject:*		*Code:*
MTS	Advanced Technical Mathematics		8242
			Study Plan:
			4 (1979)
Course:	*Semester:*	*Status:*	*Credits:*
3rd	A+B	Mandatory	5,6 credits = 5,6 (TA) + 0,0 (PA)
Director of the Course:			*Department:*
José Luis Santos Lucas			Applied Mathematics

II. GENERAL DESCRIPTION OF THE SUBJECT:

This course aims to provide an approach of mathematical models associated with specific problems of physics and structures. For this, the student will become familiar with statistical research: tabulation and description of results, statistical inference, quality control, regression, etc.. Additionally, the course aims to acquaint students with the calculation of approximate numerical solutions and implementation of the solutions in computer aided programs. The course consists of a theoretical part and a practical one, the latter being a combination of problem solving and practical case studies.

III. ORGANIZATION OF THE COURSE UNITS :

Information not available

I. GENERAL DATA:			
Acronym:	*Subject:*		*Code:*
IN2	English Language II		8237
			Study Plan:
			4 (1979)
Course:	*Semester:*	*Status:*	*Credits:*
3rd	A+B	Elective	11,2 credits = 5,6 (TA) + 5,6 (PA)
Director of the Course:			*Department:*
Aurora Astor Guardiola			Applied Linguistics

II. GENERAL DESCRIPTION OF THE SUBJECT:

This course is designed to study and widen the knowledge and use of the English language. Throughout the course, key technical terms related to the different specialties within the architectural field will be presented for the student to use the language as an instrument of communication, as well as to allow the student to understand professional and scientific texts in English. This so will be done by means of exercises that bring together the five skills of communication: listening, reading comprehension, oral expression, interaction, and writing. The exercises will be conducted individually and in teams, which both play a significant role academically and professionally.

III. ORGANIZATION OF THE COURSE UNITS :

Information not available

FOURTH YEAR

ESCUELA TECNICA SUPERIOR DE ARQUITECTURA DE VALENCIA

COURSE DESCRIPTION (B.O.E. 22 MARCH 1979)

I. GENERAL DATA:			
Acronym:	*Subject:*		*Code:*
PR2	Projects II		8251
			Study Plan:
			4 (1979)
Course:	*Semester:*	*Status:*	*Credits:*
4th	A+B	Mandatory	25,2 credits = 14 (TA) + 11,2 (PA)
Director of the Course:			*Department:*
José Maria Lozano Velasco			Architectural Projects

II. GENERAL DESCRIPTION OF THE SUBJECT:

Projects-II continues a series of mandatory courses in the Second Year (Elements of Composition) and Third Year (Projects-I), which lead to the Final Year Project. These courses are provided in workshops coordinated by the Department of Architectural Design. This course addresses the architectural project from its concept, idea, expression and materialization and allows, based on specified premises and goals, organizing and developing project proposals that meet certain requirements such as functional, technical, cultural, social, aesthetical and relationship with the environment, in the proposed context and from the understanding of the social role of the Architect and the responsibility of the project.
Each project will need to determine the tools and procedures for the representation and expression of its proposals, as well as the exposition of the criteria on which the project is based.

III. ORGANIZATION OF THE COURSE UNITS :

Information not available

I. GENERAL DATA:			
Acronym:	*Subject:*		*Code:*
ST2	Structures Design and Analisys II		8217
			Study Plan:
			4 (1979)
Course:	*Semester:*	*Status:*	*Credits:*
4th	A+B	Mandatory	14 credits = 8,4 (TA) + 5,6 (PA)
Director of the Course:			*Department:*
Eugenio Abdilla Muedra			Continuum Mechanics and Structures Theory

II. GENERAL DESCRIPTION OF THE SUBJECT:

The content of this class is structured on the following topics: 1. Actions in the building according to the codes: (CTE DBSE-AE and NCSE). 2. Structural safety, 3. Energy methods, 4. Isostatic and hyperstatic structures, 5. Approximate methods and criteria for pre-dimensioning, 6. Design of structures using computer software, and 7. Design of elements and structural systems.
The theoretical knowledge will be applied in a case study consisting in the development of the project of a single particular structure.

III. ORGANIZATION OF THE COURSE UNITS :

Information not available

I. GENERAL DATA:			
Acronym:	*Subject:*		*Code:*
CO2	Composition II		8220
			Study Plan:
			4 (1979)
Course:	*Semester:*	*Status:*	*Credits:*
4th	A+B	Mandatory	11,2 credits = 8,4 (TA) + 2,8 (PA)
Director of the Course:			*Department:*
Juan Francisco Noguera Giménez			Architectonical Composition

II. GENERAL DESCRIPTION OF THE SUBJECT:

This course provides a methodology to approach the critical analysis and the architectural creation. Its objectives are to stimulate the critical capacity to go in depth in the knowledge of the 20th century architecture, providing students with instruments of cross-curricular analysis, and creative synthesis towards the project. Units are divided in two sections: First the compositional methods and architectural options, and second the different dimensions or parameters of architecture: place, function, geometry, structure, form, space, travel, light and materiality. Each one of them is analyzed chronological and transversally, having an impact on its evolution. The objective is to enable the students to delve into the projectual mechanisms hidden behind the will of the architect. This class is a process of cognitive research that extracts methodologies, theories, forms, techniques and solutions of history, atemporalizes them respecting their original context and inserts them into a specific plane suitable for the creative act.

III. ORGANIZATION OF THE COURSE UNITS :

Information not available

I. GENERAL DATA:			
Acronym:	*Subject:*		*Code:*
TAC	Conditioning Techniques		8254
			Study Plan:
			4 (1979)
Course:	*Semester:*	*Status:*	*Credits:*
4th	A+B	Mandatory	8,4 credits = 5,6 (TA) + 2,8 (PA)
Director of the Course:			*Department:*
Pablo Segura Grañó			Architectural Constructions

II. GENERAL DESCRIPTION OF THE SUBJECT:

Design related aspects of technical systems of buildings and basics of MEP planning with the following topics: overall understanding of MEP systems, integration of building systems, climate control strategies, design and calculations of heating and cooling systems (heating and cooling needs, automated single-unit systems, centralized systems, induction systems or adaptable systems), acoustic control strategies. Additionally, this course studies several specialized building typologies such as the building systems for residential buildings, public buildings, museums and exhibition centers, or health care buildings.

III. ORGANIZATION OF THE COURSE UNITS :

Information not available

I. GENERAL DATA:			
Acronym:	*Subject:*		*Code:*
CT2	Constructions II		8222
			Study Plan:
			4 (1979)
Course:	*Semester:*	*Status:*	*Credits:*
4th	A+B	Mandatory	16,8 credits = 11,2 (TA) + 5,6 (PA)
Director of the Course:			*Department:*
Javier Benlloch Marco			Architectural Constructions

II. GENERAL DESCRIPTION OF THE SUBJECT:

Development of materials studied in MCO and CT1 with special emphasis on the construction of building envelope assemblies: partitions, curtain wall and window wall systems, industrialized facade techniques and roofing systems.

III. ORGANIZATION OF THE COURSE UNITS :

Information not available

I. GENERAL DATA:			
Acronym:	**Subject:**		**Code:**
UR1	Urbanism I		8254
			Study Plan:
			4 (1979)
Course:	**Semester:**	**Status:**	**Credits:**
4th	A+B	Mandatory	14 credits = 11,2 (TA) + 2,8 (PA)
Director of the Course:			**Department:**
Juan Luís Piñón Pallarés			Urbanism

II. GENERAL DESCRIPTION OF THE SUBJECT:

The approach guiding the course UR2 intends to demonstrate its operational nature within the logic of the project as a process of synthesis. This approach, progressively consolidated as "urban project" in the European culture, identifies the project as a specific message within the field of urbanism. The overall theme of the course revolves around the transformation into residential areas. This fields corresponds, in terms of magnitude, with has been called in recent times the intermediate scale of urbanism, halfway between the broader territorial field and the narrower associated with urban design and the urbanization project.

Training in this field is put into practice with one or more projects, which content will be adjusted to the traditional content of urban planning projects: use and study of historical references; selection of residential and plotting typologies; determination of key geometrical building parameters (volumes, traces, dimensions...); definition of public spaces and, finally, approximation of the administrative parameters that give legal feasibility to the project.
The course is completed with a series of lessons and/or presentation of topics that reflect the application of the principles and ideas that are part of the cultural wealth of this subject.

III. ORGANIZATION OF THE COURSE UNITS :

Information not available

I. GENERAL DATA:			
Acronym:	*Subject:*		*Code:*
ELT	Electrical and Lighting Engineering		8226
			Study Plan:
			4 (1979)
Course:	*Semester:*	*Status:*	*Credits:*
4th	A+B	Mandatory	8,4 credits = 5,6 (TA) + 2,8 (PA)
Director of the Course:			*Department:*
Vicente Blanca Giménez			Architectural Constructions

II. GENERAL DESCRIPTION OF THE SUBJECT:

Study of electric and lighting systems in building design; design of electric and lighting systems and calculations of the energy consumption emerging from the different voltage and assemblies. Additionally, this course studies the design and performance of other complementary systems such as transportation systems (escalators, elevators, or mechanical loops) and communication systems (radio and TV antennas, electromagnetic waves or telecom units). This covers both mechanical spatial such as design related issues as well as numerical analyses.

III. ORGANIZATION OF THE COURSE UNITS :

Information not available

FIFTH YEAR

ESCUELA TECNICA SUPERIOR DE ARQUITECTURA DE VALENCIA

COURSE DESCRIPTION (B.O.E. 22 MARCH 1979)

I. GENERAL DATA:			
Acronym:	*Subject:*		*Code:*
PR3	Projects III		8252
			Study Plan:
			4 (1979)
Course:	*Semester:*	*Status:*	*Credits:*
5th	A+B	Mandatory	22,4 credits = 11,2 (TA) + 11,2 (PA)
Director of the Course:			*Department:*
Jorge Torres Cueco			Architectural Projects

II. GENERAL DESCRIPTION OF THE SUBJECT:

Projects-III continues a series of mandatory courses in the Second Year (Elements of Composition), Third Year (Projects-I), and Fourth Year (Projects-II) which lead to the Final Year Project.
This course addresses the architectural project from its concept, idea, expression and materialization and allows, based on specified premises and goals, organizing and developing project proposals that meet certain requirements such as functional, technical, cultural, social, aesthetical and relationship with the environment, in the proposed context and from the understanding of the social role of the Architect and the responsibility of the project.
Each project will need to determine the tools and procedures for the representation and expression of its proposals, as well as the exposition of the criteria on which the project is based.

III. ORGANIZATION OF THE COURSE UNITS :

Information not available

I. GENERAL DATA:			
Acronym:	**Subject:**		**Code:**
ST3	Structures Design and Analisys III		8218
			Study Plan:
			4 (1979)
Course:	**Semester:**	**Status:**	**Credits:**
5th	A+B	Mandatory	16,8 credits = 11,2 (TA) + 5,6 (PA)
Director of the Course:			**Department:**
José Monfort LLeonart			Continuum Mechanics and Structures Theory

II. GENERAL DESCRIPTION OF THE SUBJECT:

This class focuses in the study of steel structures in buildings, developing the following: 1. steel as a construction material, 2. warehouses, 3. Basis of calculations, 4. arcaded structures, 5. node connections, 6. bolting and welding engineering, 7. bending in beams, 8. compression and axial buckling in vertical supports.

III. ORGANIZATION OF THE COURSE UNITS :

Information not available

I. GENERAL DATA:			
Acronym:	*Subject:*		*Code:*
MSU	Mechanics, Soil and Special Foundations		8244
			Study Plan:
			4 (1979)
Course:	*Semester:*	*Status:*	*Credits:*
5th	A+B	Mandatory	11,2 credits = 8,4 (TA) + 2,8 (PA)
Director of the Course:			*Department:*
Rafael Molina Zoroa			Land Engineering

II. GENERAL DESCRIPTION OF THE SUBJECT:

The course has as main objective to teach the students the basic elements to be able to predict the response of the ground in the face of the activities of the architecture and understand the recommendations of the technical codes. It complements the knowledge acquired in other areas such as construction or structural engineering. The student should be able to design a foundation with minimal factors. The course is divided in three units: 1. Basic properties of the soil; 2. Soil as a continuous medium: resistance and deformation; 3. Application of soil mechanics to superficial and deep foundations. Aspects relating to recognition of the terrain will be discussed as well.

III. ORGANIZATION OF THE COURSE UNITS :

Information not available

I. GENERAL DATA:			
Acronym:	*Subject:*		*Code:*
CT2	Constructions III		8222
			Study Plan:
			4 (1979)
Course:	*Semester:*	*Status:*	*Credits:*
5th	A+B	Mandatory	16,8 credits = 11,2 (TA) + 5,6 (PA)
Director of the Course:			*Department:*
Bernardo Perepérez Ventura			Architectural Constructions

II. GENERAL DESCRIPTION OF THE SUBJECT:

Development of materials studied in MCO and CT-1 with special emphasis on the construction of building envelope assemblies: partitions, curtain wall and window wall systems, industrialized facade techniques and roofing systems.

III. ORGANIZATION OF THE COURSE UNITS :

Information not available

I. GENERAL DATA:			
Acronym:	**Subject:**		**Code:**
UR2	Urbanism II		8255
			Study Plan:
			4 (1979)
Course:	**Semester:**	**Status:**	**Credits:**
5th	A+B	Mandatory	11,2 credits = 8,4 (TA) + 2,8 (PA)
Director of the Course:			**Department:**
Luís Alonso De-Armiño-Peréz			Urbanism

II. GENERAL DESCRIPTION OF THE SUBJECT:

The course is structured into different learning units divided into: territorial scale, territorial and urban planning, and urban scale. Each of these units addresses the following concepts:
1. The territorial scale analyzes the identity of the territory and the landscape elements, the different settlement patterns and environmental criteria, the recycling of the territory and the sustainability challenges.
2. The Territorial and Urban Planning analyzes the instruments for planning of the territory and landscape, strategic planning and the regulatory processes of environmental nature.
3. The Urban Scale analyzes different city prototypes, the attributes of urban form, the urban landscape, the public scene and the networks of green spaces as well as the sustainable development and the urban environment.
In addition to the basic learning units, urban projects will be analyzed by means of urban regeneration and renovation proposals, interventions of partial growth or incomplete urban areas and interventions in the public space: urbanization and landscaping projects.

III. ORGANIZATION OF THE COURSE UNITS :

Information not available

I. GENERAL DATA:			
Acronym:	*Subject:*		*Code:*
INS	Architectural Engineering		8238
			Study Plan:
			4 (1979)
Course:	*Semester:*	*Status:*	*Credits:*
5th	A+B	Mandatory	5,6 credits = 5,6 (TA) + 0,0 (PA)
Director of the Course:			*Department:*
Francisco Gómez Lopera			Architectural Constructions

II. GENERAL DESCRIPTION OF THE SUBJECT:

Design related aspects of MEP based on the following topics: integrated design of building systems, plumbing design and dimensioning for cold and hot water systems, components, distribution, fire protection systems, and sanitary uses, evacuation of waters, and recycling and distribution to urban environment. Study of dimensioning and design of pipings and ventilation requirements for gas.

III. ORGANIZATION OF THE COURSE UNITS :

Information not available

I. GENERAL DATA:			
Acronym:	**Subject:**		**Code:**
DEO	Legal Architecture, Urbanism, Law and Assessment		8215
			Study Plan:
			4 (1979)
Course:	**Semester:**	**Status:**	**Credits:**
5th	A+B	Mandatory	14 credits = 8,4 (TA) + 5,6 (PA)
Director of the Course:			**Department:**
Fernando Romero Saura			Urbanism

II. GENERAL DESCRIPTION OF THE SUBJECT:

This course merges the different legal conditions governing the practice of architecture and has multiple objectives: 1. Offer each student the legal framework within which the Architect practices; 2. the study of the methods of real estate valuation to calculate market, cadastral or urban values; 3. the study of different types of urban plans and the approval processes, as well as the management tools to obtain a construction license.

III. ORGANIZATION OF THE COURSE UNITS :

Information not available

SIXTH YEAR (Specialization in Urbanism)

ESCUELA TECNICA SUPERIOR DE ARQUITECTURA DE VALENCIA

COURSE DESCRIPTION (B.O.E. 22 MARCH 1979)

I. GENERAL DATA:			
Acronym:	*Subject:*		*Code:*
PLU	Urban Planning		8246
			Study Plan:
			4 (1979)
Course:	*Semester:*	*Status:*	*Credits:*
6th	A+B	Elective	16,8 credits = 16,8 (TA) + 0,0 (PA)
Director of the Course:			*Department:*
			Urbanism
II. GENERAL DESCRIPTION OF THE SUBJECT:			
Information not available			
III. ORGANIZATION OF THE COURSE UNITS :			
Information not available			

I. GENERAL DATA:			
Acronym:	*Subject:*		*Code:*
PRU	Urbanism Practice		8247
			Study Plan:
			4 (1979)
Course:	*Semester:*	*Status:*	*Credits:*
6th	A+B	Elective	16,8 credits = 8,4 (TA) + 8,4 (PA)
Director of the Course:			*Department:*
			Urbanism
II. GENERAL DESCRIPTION OF THE SUBJECT:			
Information not available			
III. ORGANIZATION OF THE COURSE UNITS :			
Information not available			

I. GENERAL DATA:			
Acronym:	*Subject:*		*Code:*
INU	Urban Facilities		8239
.			*Study Plan:*
			4 (1979)
Course:	*Semester:*	*Status:*	*Credits:*
6th	A+B	Elective	8,4 credits = 5,6(TA) + 2,8 (PA)
Director of the Course:			*Department:*
			Urbanism
II. GENERAL DESCRIPTION OF THE SUBJECT:			
Information not available			
III. ORGANIZATION OF THE COURSE UNITS :			
Information not available			

I. GENERAL DATA:			
Acronym:	*Subject:*		*Code:*
JAR	Gardening and Landscape		8241
			Study Plan:
			4 (1979)
Course:	*Semester:*	*Status:*	*Credits:*
6th	A+B	Elective	11,2 credits = 8,4 (TA) + 2,8 (PA)
Director of the Course:			*Department:*
			Urbanism
II. GENERAL DESCRIPTION OF THE SUBJECT:			
Information not available			
III. ORGANIZATION OF THE COURSE UNITS :			
Information not available			

I. GENERAL DATA:			
Acronym:	**Subject:**		**Code:**
PFC	Graduation Project		8249
			Study Plan:
			4 (1979)
Course:	**Semester:**	**Status:**	**Credits:**
6th	A+B	Mandatory	28 credits = 14 (TA) + 14 (PA)
Director of the Course:			**Department:**
Vicente Mas Llorens			Architectural Projects

II. GENERAL DESCRIPTION OF THE SUBJECT:

The Final Year Project brings together all the knowledge accumulated throughout the coursework of the degree. The course is organized with interdepartmental cross-direction: Projects, Construction and Structures, mainly, by what it is understood as a program linked to curriculum development in different subjects: Architectural Design, Construction, Structures and MEP.
It addresses the architectural project from the concept, idea and expression, and allows, from premises and setting of goals, organizing and developing project proposals that meet certain needs and technical, cultural, aesthetic, and environmental requirements, in the proposed context and from the understanding of the social role of the architect and the responsibility of the project.
The Final Year Project addresses the architectural project in coordination between its conception and its materiality. New technologies will be taken into account in the entire process as part of the design. This course is taught in coordinated workshops integrated by faculty members who belong to different fields that comprise the comprehensive conception of the architectural project, from the various departments of architectural projects, structures and construction.

III. ORGANIZATION OF THE COURSE UNITS :

Information not available

SIXTH YEAR (Specialization in Building)

ESCUELA TECNICA SUPERIOR DE ARQUITECTURA DE VALENCIA

COURSE DESCRIPTION (B.O.E. 22 MARCH 1979)

I. GENERAL DATA:			
Acronym:	**Subject:**		**Code:**
PST	Structural Project		8248
			Study Plan:
			4 (1979)
Course:	**Semester:**	**Status:**	**Credits:**
6th	A+B	Elective	16,8 credits = 8,4 (TA) + 8,4 (PA)
Director of the Course:			**Department:**
Salvador Borcha Vila			Continuum Mechanics and Structures Theory

II. GENERAL DESCRIPTION OF THE SUBJECT:

The objective of this course is to initiate the student in basic topics related to the definition, analysis, design and project of a building structure. It is the object of this course to clarify the concept of structure and its basic requirements (equilibrium, rigidity, stability), the structural design process (modeling, actions, constrains, links, materials) and the most commonly used structural systems. In the final part of the course the students will prepare a Final Project of Structures supervised by the teachers in the class.

III. ORGANIZATION OF THE COURSE UNITS :

Information not available

I. GENERAL DATA:			
Acronym:	*Subject:*		*Code:*
IND	Industries and Prefabrication		8235
			Study Plan:
			4 (1979)
Course:	*Semester:*	*Status:*	*Credits:*
6th	A+B	Elective	8,4 credits = 5,6 (TA) + 2,8 (PA)
Director of the Course:			*Department:*
Emilio Barberá Ortega			Architectural Constructions

II. GENERAL DESCRIPTION OF THE SUBJECT:

Calculation and design of industrialized concrete building systems such as the following: reinforced concrete and prestressed concrete slabs, concrete beams and columns, concrete sandwich panels, joints between prefabricated structural elements, quality control, and construction documents.

III. ORGANIZATION OF THE COURSE UNITS :

Information not available

I. GENERAL DATA:			
Acronym:	**Subject:**		**Code:**
OOE	Works and Business Organization		8245
			Study Plan:
			4 (1979)
Course:	**Semester:**	**Status:**	**Credits:**
6th	A+B	Elective	8,4 credits = 5,6 (TA) + 2,8 (PA)
Director of the Course:			**Department:**
Luís Sendra Mengual			Business Organization

II. GENERAL DESCRIPTION OF THE SUBJECT:

This course develops the skills necessary for the management and direction of companies related to the profession of Architect. It is organized in three modules:
1. fundamentals of economy: the economic system, functioning of markets, failures of the market, basics of sustainable development, macroeconomic variables and economic policy, and characterization of the real estate sector.
2. Oriented to the development of real estate management: real estate development, financial analysis, financing, taxation, marketing and feasibility in the real estate sector.
3. Profession, based on the development of basic skills related to the profession of architect. The organization of a professional firm is discussed, as well as the role of professional associations and the ethics of the profession.

III. ORGANIZATION OF THE COURSE UNITS :

Information not available

I. GENERAL DATA:			
Acronym:	**Subject:**		**Code:**
PFC	Graduation Project		8249
			Study Plan:
			4 (1979)
Course:	**Semester:**	**Status:**	**Credits:**
6th	A+B	Mandatory	28 credits = 14 (TA) + 14 (PA)
Director of the Course:			**Department:**
Vicente Mas Llorens			Architectural Projects

II. GENERAL DESCRIPTION OF THE SUBJECT:

The Final Year Project brings together all the knowledge accumulated throughout the coursework of the degree. The course is organized with interdepartmental cross-direction: Projects, Construction and Structures, mainly, by what it is understood as a program linked to curriculum development in different subjects: Architectural Design, Construction, Structures and MEP.
It addresses the architectural project from the concept, idea and expression, and allows, from premises and setting of goals, organizing and developing project proposals that meet certain needs and technical, cultural, aesthetic, and environmental requirements, in the proposed context and from the understanding of the social role of the architect and the responsibility of the project.
The Final Year Project addresses the architectural project in coordination between its conception and its materiality. New technologies will be taken into account in the entire process as part of the design. This course is taught in coordinated workshops integrated by faculty members who belong to different fields that comprise the comprehensive conception of the architectural project, from the various departments of architectural projects, structures and construction.

III. ORGANIZATION OF THE COURSE UNITS :

Information not available