



<b>I. GENERAL DATA:</b>			
<b>Acronym:</b>	<b>Subject:</b>	<b>Code:</b>	
MSU	Soil Mechanics and Foundations	13408	
		<b>Study Plan:</b>	
		178 (2015)	
<b>Course:</b>	<b>Semester:</b>	<b>Status:</b>	<b>Credits:</b>
5º	B	Compulsory	4,5 credits = 2,25 (TA) + 2,25 (PL)
<b>Director of the Course:</b>		<b>Department:</b>	
Carrión Carmona, Miguel Ángel		LAND ENGINEERING	
<b>II. GENERAL DESCRIPTION OF THE SUBJECT:</b>			
<p>The main objective of the subject is to provide the student with the basic elements to be able to interpret the soil's response to the activities related to architecture and to understand the recommendations of the technical codes. It tries to complement the knowledge acquired in other areas such as construction or calculation of structures. Students must be able to design a foundation with a few minimum conditions.</p>			
<b>III. SELECTION AND STRUCTURING OF THE MAIN UNITS:</b>			
<p>UNIT I: ELEMENTARY SOIL PROPERTIES AND CLASSIFICATION</p> <p>UNIT II: THE SOIL AS A CONTINUOUS MEDIUM: FLOW, DEFORMATION AND RESISTANCE</p> <p>UNIT III: APPLICATIONS OF SOIL MECHANICS: SURFACE AND DEEP FOUNDATIONS. GROUND RECOGNITION.</p>			





<b>I. GENERAL DATA:</b>			
<b>Acronym:</b>	<b>Subject:</b>	<b>Code:</b>	
RES	Architectural Restoration	11391	
		<b>Study Plan:</b>	
		178 (2015)	
<b>Course:</b>	<b>Semester:</b>	<b>Status:</b>	<b>Credits:</b>
5º	A	Compulsory	4,5 credits = 2,5 (TA) + 2 (PL)
<b>Director of the Course:</b>		<b>Department:</b>	
Mileto, Camilla		Architectural Composition	
<b>II. GENERAL DESCRIPTION OF THE SUBJECT:</b>			
<p>The main objective of Architectural Preservation is to train students to devise and develop a conservation, restoration or rehabilitation project of the architectural heritage, as well as to train them to study the value of historical buildings, to assess their state of conservation for their protection, conservation or restoration; as well as the analysis and criticism of any intervention in the same. The students will understand the historical and current restoration theories and the methodological knowledge for its implementation in the analysis of interventions and in the adoption of criteria for the restoration project. The students will solve heritage related questions on previous studies and its implementation in the project. For this purpose, the subject has two theoretical parts, one destined to the history of restoration theories and another which aims to provide a methodology of analysis and intervention linked to practice. Both shall train the student in analysis, criticism and creativity skills.</p>			
<b>III. SELECTION AND STRUCTURING OF THE MAIN UNITS:</b>			
<p><b>1. Introduction</b></p> <p>1. Vocabulary and basic concepts</p> <p><b>2. History of restoration: the foundations of contemporary theory</b></p> <p>1. The creation of the heritage culture until the 18<sup>th</sup> century</p> <p>2. The beginnings of restoration in Italy and archaeological restoration</p> <p>3. The beginnings of restoration in France and the restoration in the Viollet-le-Duc style</p> <p>4. The Basics of Preservation in England: John Ruskin and William Morris</p> <p>5. The first developments in Italy: Beltrami, Boito, Giovannoni and Annoni</p> <p>6. Restoration in Central Europe: Riegl's theory and the activity of his followers</p> <p>7. Italy: from post-war to the present</p> <p><b>3. Restoration in Spain and the Valencian Community</b></p> <p>1. The first developments in Spain: the restorative school and the conservative school</p> <p>2. The current restoration in Spain</p> <p>3. The current restoration in Valencia</p> <p><b>4. El Knowledge of the historic building. Methodology and presentation of cases</b></p> <p>1. The knowledge of the historic building</p> <p>2. Metric-descriptive survey</p> <p>3. Materials study and construction techniques</p> <p>4. Degradation of materials</p>			





5. Structural problems
6. Stratigraphic analysis

**5. Criteria for architectural restoration. From theory to practice: case presentation**

1. The restoration project: criteria and techniques
2. Compatibility as a restoration concept
3. The authenticity of the historic building
4. Readability and relationship between new and old
5. Minimal intervention
6. Protection and lack of protection of historic centers





<b>I. GENERAL DATA:</b>			
<b>Acronym:</b>	<b>Subject:</b>	<b>Code:</b>	
STR3	Structural Design 3	13407	
		<b>Study Plan:</b>	
		178 (2015)	
<b>Year:</b>	<b>Semester:</b>	<b>Status:</b>	<b>Credits:</b>
5 <sup>º</sup>	A	Compulsary	4,5 credits = 2,5 (TA) + 2 (PL)
<b>Course Director:</b>		<b>Department:</b>	
Pardo Ros, José Luís		MECHANICS OF CONTINUOUS MEDIA AND THEORY OF STRUCTURES	
<b>II. GENERAL DESCRIPTION OF THE SUBJECT:</b>			
<p>Study of metal structures for building developed according to the following sections:</p> <ol style="list-style-type: none"> <li>1- Material. Normative. Essays. Type and grade. Commercial products</li> <li>2- Actions and their combinations</li> <li>3- Porches / Knots. Typology of knots. Rigidity of joints</li> <li>4- Porticos. Typology: multi-floor with slabs. Imperfections, bracing and translationality</li> <li>5 - Porticos. Typology: industrial warehouse. Imperfections in windbreak</li> <li>6- Bars: supports. Types of sections. Buckling, simple compression and flexocompression. Bases</li> <li>7- Bars: beams. Flexion</li> <li>8- Knots. Non-prestressed and prestressed screws</li> <li>9- Knots. Welding</li> </ol>			
<b>III. SELECTION AND STRUCTURING OF THE MAIN UNITS:</b>			
<ol style="list-style-type: none"> <li>1. Material. Regulations. Essays. Type and grade. Commercial products</li> <li>2. Actions and their combinations</li> <li>3. Porches / Knots. Typology of knots. Rigidity of joints</li> <li>4. Porticos. Typology: multi-floor</li> <li>5. Porticos. Typology: industrial warehouse. Imperfections in windbreak</li> <li>6. Bars: supports. Classes of sections. Buckling, simple compression and flexocompression. Bases</li> <li>7. Bars: Beams. Flexion</li> </ol>			





8. Knots. Non-prestressed and prestressed screws

9. Knots. Welding





<b>I. GENERAL DATA:</b>			
<b>Acronym:</b>	<b>Subject:</b>	<b>Code:</b>	
TFG	Bachelor's Degree Final Project	13409	
		<b>Study Plan:</b>	
		178 (2015)	
<b>Course:</b>	<b>Semester:</b>	<b>Status:</b>	<b>Credits:</b>
5º	B	Compulsory	6 crèdits = 3 (TA) + 3 (PL)
<b>Director of the Course:</b>		<b>Department:</b>	
Sentieri Omarrementería, Carla			
<b>II. GENERAL DESCRIPTION OF THE SUBJECT:</b>			
<p>The Bachelor's Degree Final Project in Fundamentals of Architecture (hereinafter TFG) is the final work of the degree. It consists on the preparation, presentation and defense before a university court of an original academic work done individually and related to any of the disciplines studied during the degree.</p> <p>To do this, the student must carry out a work or original project in which there remain technical knowledge, skills and competences acquired in the length of studies of the degree and, in particular, the competences associated with this matter.</p> <p>With an assignment of 6 ECTS, the TFG is a work that has to be developed with autonomy by the student under the supervision of an academic tutor, or two co-tutors. So, being the method strictly tutorial, there is no specific teaching of this subject.</p> <p>At the time of selecting subject and tutor, students can choose between two modalities:</p> <p>A. Public Auction. The student who chooses this method has a list of works of each departments. The student will have to select in the Ebrón computer application those in which he is interested and order them according to his preference. The works will be assigned in order of registration. All this process will be carried out during the first semester, so that in the second semester the student has already assigned the work and the tutor.</p> <p>B. By agreement. The student who chooses this method must make contact to a professor of the degree, propose a work theme and request him to be his tutor. If the professor accepts, all data will be entered into the computer system. Obviously the subject can not be any of the offered for the public auction.</p>			
<b>III. SELECTION AND STRUCTURING OF THE MAIN UNITS:</b>			





<b>I. GENERAL DATA:</b>			
<b>Acronym:</b>	<b>Subject:</b>	<b>Code:</b>	
AL	Architectural and urban Regulations	13395	
		<b>Study Plan:</b>	
		178 (2015)	
<b>Course:</b>	<b>Semester:</b>	<b>Status:</b>	<b>Credits:</b>
5 <sup>º</sup>	b	Compulsory	7,5 credits = 3,8 (TA) + 3,7 (PL)
<b>Director of the Course:</b>		<b>Department:</b>	
Segura Gomis, Luís		Urban Planning	
<b>II. GENERAL DESCRIPTION OF THE SUBJECT:</b>			
<p>The subject is the link with the legal conditions that regulate the profession and serves a multiple purpose:</p> <ol style="list-style-type: none"> <li>1. to offer students the legal framework within which the professional practice of the architect is carried out</li> <li>2. the study of real estate valuation methods for the purpose of calculating market value, cadastral or urban value and</li> <li>3. the study of the different types of urban plans, their contents for the purpose of writing by the architect and their corresponding approval, as well as the management of processes for the achievement of the building permit</li> </ol>			
<b>III. SELECTION AND STRUCTURING OF THE MAIN UNITS:</b>			
<ol style="list-style-type: none"> <li>1. Architecture Law <ol style="list-style-type: none"> <li>1. Legal framework</li> <li>2. Royalties and their regulation</li> <li>3. Limited Royalties and their Civil Regulation</li> <li>4. Limited Royalties and their Administrative Regulation</li> <li>5. Horizontal Property</li> <li>6. The Contracting of Work</li> <li>7. Public Administration in the control and promotion of housing</li> <li>8. Other Civil and Administrative Regulations Concerning Professional Performance</li> </ol> </li> <li>2. Land Planning Legislation <ol style="list-style-type: none"> <li>1. Legal framework of urban planning. Land tenure regime</li> <li>2. Urban planning techniques. Legislation for planning</li> <li>3. Urban and territorial planning system. The green infrastructure</li> <li>4. Concepts for the drafting of the General Structural Plan</li> <li>5. Elements for Preparation of Development Planning</li> <li>6. General Plan. Development of planning instruments</li> <li>7. Planning process. Strategic Environmental Assessment</li> <li>8. Urban management and basic concepts of equidistribution</li> <li>9. Drafting of documents and projects required by urban management</li> <li>10. Building Inspection</li> <li>11. Uses and usability of non-buildable land. The Rural Areas</li> <li>12. Duty to build, preserve and rehabilitate</li> </ol> </li> </ol>			





3. Real Estate Appraisals
  1. Introduction to the Theory of the Value of Real Estate
  2. Market-based Comparison Method
  3. Method of Capitalisation of Returns
  4. Method of Calculating Value as Waste
  5. Cost of Construction Method
  6. Cadastral valuation
  7. Urban Appraisal







<b>I. GENERAL DATA:</b>			
<b>Acronym:</b>	<b>Subject:</b>	<b>Code:</b>	
PR5	Architectural Projects 5 (Design Studio)	13384	
		<b>Study Plan:</b> 178 (2015)	
<b>Course:</b>	<b>Semester:</b>	<b>Status:</b>	<b>Credits:</b>
5º	A-B	Compulsory	15 credits = 7,5 (TA) + 7,5 (PL)
<b>Director of the Course:</b>		<b>Department:</b>	
Gómez Alfonso, Carlos José		Architectural projects	
<b>II. GENERAL DESCRIPTION OF THE SUBJECT:</b>			
<p>Projects 5 is the fourth Architectural Projects Department core course which the Architecture student studies. It is an annual course and it takes place during the ninth and tenth semesters of the Architecture Studies.</p> <p>The teaching of the Architectural Projects Department core subjects is coordinated by its Talleres: Taller 1, Taller 2, Taller 3, Taller H, Taller 5, Taller A and Taller 4. These are in charge of assuring a structured and complete teaching in the knowledge area.</p> <p>It approaches the architectural project from its concept, idea and expression and allows, from premises and definition of objectives, to organize and develop project proposals that satisfy certain requirements such as function, technique, culture, aesthetic and environment relationship, In the proposed context and from the understanding of the social function of the architect and his project responsibility.</p> <p>Throughout the project tour will be necessary the determination of the tools and procedures for the representation and expression of such proposals, as well as the presentation of the basic criteria on which an architectural project is based.</p>			
<b>III. SELECTION AND STRUCTURING OF THE MAIN UNITS:</b>			
<ol style="list-style-type: none"> <li>1. ARCHITECTURAL PROJECT: CONCEPT. IDEA. EXPRESSION.</li> <li>2. PHYSICAL MEDIUM AND CULTURAL ENVIRONMENT.</li> <li>3. ACTIVITY AND FUNCTION.</li> <li>4. SPACE AND FORM.</li> <li>5. SUBJECT AND TECHNIQUE.</li> <li>6. SYSTEMS. PROCESSES. IDIOMS.</li> </ol>			





<b>I. GENERAL DATA:</b>			
<b>Acronym:</b>	<b>Subject:</b>	<b>Code:</b>	
CT3	Construction 3	13400	
		<b>Study Plan:</b>	
		178 (2015)	
<b>Year:</b>	<b>Semester:</b>	<b>Status:</b>	<b>Credits:</b>
5	A-B	Compulsory	9 credits = 5 (TA) + 4 (PL)
<b>Course Director:</b>		<b>Department:</b>	
Pereperez Ventura, Bernardo		Architectural constructions	
<b>II. GENERAL DESCRIPTION OF THE SUBJECT:</b>			
<p>Construction III is a monographic course on structural concrete. This is the case since the creation of the E.T.S. of Architecture of Valencia, beings one of the most characteristic features of the same, imitated by other centres in recent years.</p> <p>Given the accelerated growth of technical and scientific knowledge, rather impressive in the field of concrete constructions, teaching the subject as a monographic course is the most effective way to optimise the limited time available, to facilitate the coordination between subjects and enhancing student learning.</p> <p>The programme is structured in two Didactic Units, which are the following:</p> <ol style="list-style-type: none"> <li>1. Materials, durability, implementation and quality control.</li> <li>2. Verification of Limit States. Structural elements, design, dimensioning and pathology.</li> </ol>			
<b>III. SELECTION AND STRUCTURING OF THE MAIN UNITS:</b>			
<ol style="list-style-type: none"> <li>1. <b>Materials, Durability, Execution and Quality Control</b> <ol style="list-style-type: none"> <li>1. Basic components of concrete</li> <li>2. Dosing of concrete</li> <li>3. Deformability of concrete</li> <li>4. Mechanical Properties of Concrete</li> <li>5. Tests of hardened concrete</li> <li>6. Armours</li> <li>7. Durability</li> <li>8. Quality control</li> </ol> </li> <li>2. <b>Verification of Limit States. Structural elements, Project, dimensioning and pathology</b> <ol style="list-style-type: none"> <li>1. Basis of calculation</li> <li>2. E.L.U. against normal stress</li> <li>3. E.L.U. of instability</li> <li>4. E.L.U. Shear force</li> <li>5. E.L.U. of effort</li> <li>6. E.L.U. torsion</li> <li>7. E.L.U. of punching</li> <li>8. E.L.U. of adhesion, anchorage and splices</li> <li>9. E.L.S cracking</li> <li>10. E.L.S. of deformation</li> </ol> </li> </ol>			





11. Walls
12. Surface foundations
13. Constructive organisation of structural elements
14. Pathology of reinforced concrete constructions.

