

IDENTIFICATION DETAILS

Degree:	Architecture		
Field of Knowledge:	Engineering and Architecture		
Faculty/School:	Higher Polytechnic School		
Course:	STRUCTURES III		
Type:	Compulsory	ECTS credits:	6
Year:	4	Code:	3747
Teaching period:	Eighth semester		
Area:	Structures		
Module:	Technical Drawing		
Teaching type:	Classroom-based		
Language:	Spanish		
Total number of student study hours:	150		

SUBJECT DESCRIPTION

El alumno recordará el análisis necesario para la obtención de solicitaciones y predimensionado de secciones aplicándolo ahora al caso de estructuras de hormigón sencillas y, posteriormente, comprobará la validez de las secciones:

Bajo solicitaciones normales

Esfuerzo axil	Comprobación de la sección y dimensionado de la armadura longitudinal
Momento flector	Comprobación de la sección y dimensionado de la armadura longitudinal
Por Pandeo	Comprobación de la sección

Bajo solicitaciones tangenciales

Esfuerzo cortante Comprobación de la sección y dimensionado de la armadura transversal

Punzonamiento Comprobación de la sección y dimensionado de la armadura de punzonamiento

Momento torsor Comprobación de la sección y dimensionado de la armadura de torsión

Adherencia Comprobación de armado

Anclaje Comprobación de armado

Estados límites de servicio:

Fisuración: Comprobación de la sección armada

Flecha: Comprobación de la sección armada

y experimentará en la estimación de resultados con métodos rápidos de aproximación a los mismos.

SKILLS

Basic Skills

Students must have demonstrated knowledge and understanding in an area of study that is founded on general secondary education. Moreover, the area of study is typically at a level that includes certain aspects implying knowledge at the forefront of its field of study, albeit supported by advanced textbooks

Students must be able to apply their knowledge to their work or vocation in a professional manner and possess skills that can typically be demonstrated by coming up with and sustaining arguments and solving problems within their field of study

Students must have the ability to gather and interpret relevant data (usually within their field of study) in order to make judgments that include reflections on pertinent social, scientific or ethical issues

Students must be able to convey information, ideas, problems and solutions to both an expert and non-expert audience

Students must have developed the learning skills needed to undertake further study with a high degree of independence

General Skills

Capacity for analytical, synthetic, reflective, critical, theoretical and practical thought.

Ability to resolve problems and to take decisions.

Ability to apply procedures.

An understanding of the problems involved in structural design, construction and engineering associated with building projects.

Specific skills

Aptitude in conceiving, calculating, creating and integrating designs in buildings and urban sites and implementing building structures (T).

Adequate knowledge of solid, continuum and soil mechanics, and the plastic, elastic and resistance qualities of heavy construction materials.

DISTRIBUTION OF WORK TIME

CLASSROOM-BASED ACTIVITY	INDEPENDENT STUDY/OUT-OF-CLASSROOM ACTIVITY
60 hours	90 hours