Teaching guide

IDENTIFICATION DETAILS

Degree:	Architecture
Field of Knowledge:	Engineering and Architecture
Faculty/School:	Higher Polytechnic School
Course:	APPLIED MATHEMATICS
Type:	Basic Training
ECTS credits:	6
Year:	2
Code:	3723
Teaching period:	Third semester
Area:	Mathematics
Module:	Introductory course
Teaching type:	Classroom-based
Language:	Spanish
Total number of student study hours:	150

SUBJECT DESCRIPTION

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.

Aptitude to create architectural projects that meet both aesthetic and technical requirements.

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

Specific skills

Applied knowledge of numerical calculus, analytical and differential geometry and algebraic methods.

An adequate knowledge of the principles of general mechanics, statics, geometry of masses and vector and tensor fields applied to architecture and urban planning.

Adequate knowledge of the principles of thermodynamics, acoustics and optics applied to architecture and urban planning.

DISTRIBUTION OF WORK TIME

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