

FIRE ENGINEERING LEARNING AT THE SCHOOL OF ARCHITECTURE

Maria Perez Echeverria

University of Navarra, Spain

In our presentation for the Action Training School "Fire Engineering Research- Key Issues for the Future II", we will explain how future architects learn from Fire Design Safety in the Universidad de Navarra, Spain.

The presentation will be focused on three main points: 1. the fire engineering learning, 2. the fire design safety course, with the theoretical and practical implementation, 3. an example of a real project carried out by a fifth year student

Fire engineering learning is considered an important topic in architecture studies in the Universidad de Navarra. Other Schools of Architecture do not consider this course as important and thus there are no mandatory courses related to this topic. A diagram will be shown in the presentation to explain different profiles of study plans of architecture in Spain. In order to design an efficient learning system, the School organizes the Fire Engineering Education in three academic years of the degree in architecture; as we will explain in the Action Training School.

During the first year, the third of the degree, the course is focused on understanding theory essentials and developing a wide understanding of theory principles of fire design safety.

Since Architecture is a practical discipline, the goal of the fifth year is to relate theory and practice. For this reason, classroom learning, exercises and research become as important as laboratory instruction. For the first time in the degree, students have to design and implement the acquired abilities in real projects.

In the last year of the degree in Architecture, students do their final project, where they have to design and implement correctly the Fire Design Safety.

As we will explain in the Action Training School, the Architecture School of the Universidad de Navarra tries to encourage students to continue in the study of Fire Design Safety with Research Training Programs.

Extra academic activities such as international seminars, technical cabinets in the laboratory or collaboration with Navarra's Emergency Agency, are also an essential part of Fire Engineering learning in the school.

To conclude, we will present a practical implementation of Fire Design Safety in a real project carried out by a fifth year student. This example summarizes the main points of Fire Engineering education taught in the School of Architecture of the Universidad de Navarra.