

Course name: SAFETY AND SECURITY

Course code: DEG 315

Course hours: Credit hours 2, Contact hours 3

Course Pre-requisites: None

Course Description

In buildings and urban facilities, various fire safety measures are implemented, even though they are not well recognized in daily life. In the first half of this course, fundamentals on physical and chemical aspects of building fires are described. In the latter half, design methodologies for fire-safe buildings are described.

Course Main Objective

In this course, the students will be to:

- Recognizes principles of fire safety for different types of buildings.
- Recognizes the fire-technical characteristics for different types of buildings.
- Design fire-fighting system and equipment in both production and non-production buildings based on acquired knowledge.
- Adopt basic knowledge in building fire protection.
- Gets acquainted with building concept design methodology from fire protection point of view.
- Calculate fire load, fire sections boundary dimension and escape ways fitting for studio creation needs.

Course Learning Outcomes

After the completion of this course, the students will be able to;

- Recognizes principles of fire safety for different types of buildings.
- Recognizes principles of fire safety for different types of buildings.
- Design objects evacuation way independently and evaluate them from total time evacuation point of view concerning legislative requests.

Course evaluation

- Quizzes, practical assignments
- Weekly/biweekly reviews
- Midterm examination
- Attendance
- Final examination

Course recommended books

- Brannigan, F. L. & Corbett, G. P. (2008). Brannigan's Building Construction for the Fire Service. Sudbury, MA: Jones & Bartlett Publishers.

