



SYLLABUS

Domain : Sciences and Technologies

Field: Hygiene and Industrial Safety

Speciality: Hygiene and Industrial Safety Bachelor's Degree

Semester: 05

scholar year: 2022/2023

Identification of the teaching subject

Title: Fire Safety

Teaching Unit: UEF3.1.1

credit: 6

Coefficient :

3 Hebdomadary schedule Volume: 4h30h

- Courses (hours number per week) : 03h00
- tutorials (hours number per week) : 01h30
- practical works (hours number per week) : /

Course Coordinator

First name, Last name, Grade: **Fatma Zohra Labadlia, Doctor**

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Courses time and place: Tuesday: (Course): 08h00-09h30

H9

Thursday (Courses): 08h00-09h30

H9 Thursd

ay (Tutorial): 09h45-11h15 H9



Description of courses

Prerequisites: Risk Typology (fire risk).

Learning Objectives: The objective of the course is to learn the various basic concepts of fire safety, define safety zones, and understand the operation and use of safety equipment against this risk.

Courses content

Chapter 1. Review of Fire Risks

Chapter 2. Fundamental Principles of Fire Safety: Combustion and Fire Phenomena (origin, propagation, behavior...)

Chapter 3. Fire Detection: Principle, Detectors, Fire Detection Systems (FDS

Chapter 4. Fire Extinguishing: Extinguishing Agents, Fire Extinguishers, Fire Suppression Systems

Chapter 5. Smoke Extraction (Ventilation).

Chapter 6. Prevention of Incidents (Maintenance, Verification, Intervention Equipment, ...)

Chapter 7. Fire Risk Management Standards.



Evaluation Method

Control nature	Weighting %
Exam	60%
Quiz	20%
Tutorial	
Practical work	
Personnel project teamwork	10%
Visit trips	
Attendance (Presence/Absence)	10%
others(to be specified)	
Total	100%

References & Bibliography

Book title	author	Editor /Edition
Guide sécurité incendie	Direction générale de la protection civile, Maroc	/
Les moyens de production de mousse	Pôle FT CEDSP	Version 2, Novembre 2011
La sécurité incendie: 1ère partie: Théorie du feu	Nathalie SURDEL Ingénieur hygiène et sécurité Université Paris 13	Octobre 2008
Conception et exploitation des locaux de travail: risque incendie	Marlène LAURENT	2010



Course Progression Schedule

Week	Course Title	Date
01 Session	Reminders about fire risks (fire: a random risk)	12/10/2023
03 Session	Fundamental principles of fire safety: - Fire phenomenon (origin, effects, propagation, ISO curve, ...) - Behavior of building components in fire (behavior of construction materials, fire reaction, fire resistance, ...) - Passive safety: - Compartmentalization, roofing, insulation materials, ...	12/10/2023 17/10/2023 19/10/2023
03 Session	<ul style="list-style-type: none"> - Fire detection: - - Detection system (detectors, design ...) - - The detectors - - Fire safety system (FSS) 	19/10/2023 24/10/2023 26/10/2023
04 Session	<ul style="list-style-type: none"> - Fire extinguishing: - Extinguishing agents (fire classes, extinguishing agents) - Manual means of extinction (extinguishers, RIA, ...) - Automatic extinguishing means (sprinkler, gas extinction). 	26/10/2023 31/10/2023 2/11/2023 2/11/2023
02 Session	Written quiz	7/11/2023
01 Session	Smoke extraction: - Principle, natural smoke extraction, mechanical smoke extraction ...	14/11/2023

