

## Quality Hygiene Security

1. **Course number and name:** 020QHSCS2 Quality Hygiene Security

2. **Credits and contact hours:** 2 ECTS credits, 1x1:15 contact hours

3. **Name of instructor:** Jihane Rahbani

4. **Instructional materials:**

- Course handouts

5. **Specific course information**

a. **Catalog description:**

Risk classification; Chemical risks; The CLP Regulation; Hazard classes; The risks associated with the storage of chemicals; Evaluation and Prevention of chemical risks in companies; Fire risk; Emergency response planning; Contributions of the engineer to risk management; Risk analysis methods.

b. **Prerequisites:** None

c. **Required/ Selected Elective/Open Elective:** Required

6. **Educational objectives for the course**

a. **Specific outcomes of instruction:**

- Understand chemical risks (toxicological risks – fire risks)
- Make exposure scenarios and assess their risks
- Evaluate ethical issues that may occur in professional engineering practice.
- Describe and apply the principles and approach of inherently safer design to reduce and eliminate hazards and thereby lower the risk of new or currently operating chemical systems.
- Identify the potential hazards and hazardous conditions associated with the processes and evaluate the safety performance.

b. **PIs addressed by the course:**

<b>PI</b>	4.1	4.2
<b>Covered</b>	x	x
<b>Assessed</b>	x	x

7. **Brief list of topics to be covered**

- Chemical risks
- Evaluation and Prevention of chemical risks in companies
- Fire risk
- Emergency response planning
- Contributions of the engineer to risk management
- Risk analysis methods