With the support of the Erasmus+ Programme of the European Union

FOReSiGHT

TEACHING NOTE for an in-person or hybrid class

Course Title: Risk Management in Industry x.0

Teaching Objectives:

1. **Conceptual Understanding:** Equip participants with a deep understanding of the principles and practices of risk management in the context of Industry X.0.
2. **Practical Application:** Enable participants to identify, assess, and develop strategies to mitigate risks associated with AI, IA, and algorithmic governance.
3. **Critical Analysis:** Foster the ability to critically evaluate the challenges and opportunities presented by digital transformation in risk management.
4. **Strategic Decision-Making:** Empower participants to make informed decisions regarding risk management in the face of emerging technologies and data-driven processes.
5. **Ethical Consideration:** Instill an understanding of the ethical implications and responsibilities associated with risk management in Industry X.0.

Teaching Strategy:

1. **Interactive Lectures:** Utilize multimedia presentations to explain complex concepts, incorporating videos, infographics, and real-world examples to enhance understanding.
2. **Guest Lectures:** Invite industry experts, especially those who have navigated risk management challenges in Industry X.0, to share their insights and experiences.
3. **Case Studies:** Introduce real-world scenarios where companies faced risks due to AI, IA, or algorithmic governance. Encourage participants to analyze these cases, identify the risks, and propose mitigation strategies.
4. **Simulation Activities:** Use digital platforms to simulate risk scenarios, allowing participants to practice risk assessment and mitigation in a controlled environment.
5. **Group Discussions:** Organize online forums where participants can discuss course content, share their insights, and learn from diverse perspectives. This promotes collaborative learning and critical thinking.
6. **Research Assignments:** Encourage participants to research emerging risks in Industry X.0 and present their findings. This fosters a proactive approach to risk identification.
7. **Ethical Debates:** Organize debates on the ethical considerations of risk management in Industry X.0, emphasizing the importance of ethical decision-making in the field.

Proposed Assessment:

1. **Module Quizzes (40% of final grade)**
    - **Objective:** Test participants' understanding and retention of each module's content.
    - **Format:** Multiple-choice, true/false, and short answer questions.
    - **Frequency:** At the end of each module.

2. **Group Discussions (20% of final grade)**
    - **Objective:** Encourage collaborative learning and the exchange of diverse perspectives on risk scenarios.
    - **Format:** Online discussion forums with weekly prompts related to module content.
    - **Assessment:** Participants will be graded on the quality of their contributions, engagement with peers, and ability to provide constructive feedback.
3. **Final Project (40% of final grade)**
    - **Objective:** Assess participants' ability to design a comprehensive risk management strategy for a hypothetical or real business undergoing digital transformation.
    - **Format:** Participants will choose a business scenario, identify potential risks associated with AI, IA, and algorithmic governance, and design a detailed risk management plan.
    - **Assessment:** Projects will be graded on the depth of risk analysis, feasibility of the proposed strategies, and clarity of presentation.