Course Title	Safety Technology & Professional Practise			
Course Code	OSH610			
Course Type	Compulsory			
Level	Master (2nd Cycle)			
Year / Semester	1st year/ 1st semester			
Teacher's Name	TBA			
ECTS	10	Lectures / week	3 hours / 14 weeks	Laboratories / week	N/A
Course Purpose and Objectives	The objective of Safety Technology & Professional Practice is to equip students with the necessary technical information that will enable them to identify and successfully manage all categories of hazards (chemical, biological, safety, ergonomics, psychosocial, physical). The emerging importance of the inclusion of technological advancements in terms of instrumentation and software in the identification and control of such risks will be highlighted. As technology moves towards greater automation, the additional demands placed on design safety of both hardware and software will also be emphasized. In depth understanding of all such risks will enable students to understand the causes and impact of small and large scale accidents involving technology and investigate them. The results of all of the above will be made evident in the development of a tailor-made emergency plan for designed technical systems that will make use of the results of risk assessment. Despite the fact that this is a postgraduate degree and prepares students to undertake safety science related posts (professional, managerial, scientific etc.) and not safety technician roles, students should have an understanding of the practical aspects of OSH, the current market needs and shifts.			
Learning Outcomes	Upon successful completion of this course students should be able to: Implement precautionary measures as a part of a wider H&S system in order to minimize the risk of occupational accidents and occupational diseases Identification and management of all potential hazards Implement precautionary measures as a part of a wider H&S system in order to manage all hazards such as vibration, noise, radiation etc Integrate practical aspects of OSH in a learning context through targeted projects Identify the causes of a technological accident and perform an accident investigation			
Prerequisites	None		Required	None
Course Content	Theoretical and practical knowledge will be offered. Stemming from Risk Assessment, students will explore in depth the application of safety legislation in workplace risks like noise, chemical, biological, radiological,			

	nuclear, vibration, indoor environment, nanoparticle and other risks. On-site visit(s) to organizations already implementing similar safety technology systems will be conducted. Environmental issues with an emphasis on climate change risks to the worker related to safety will be discussed. The importance of the design of a holistic emergency plan taking in account employees, visitors, the general public, contractors and subcontractors will be illustrated. Part of the course will be based on the acquaintance with practical aspects of OSH. In particular, OSH professionals will be invited in class, targeted visits to organizations will be arranged. Part of the course grade will come from a focused mini-project on a practical OSH issue of an existing organization.
Teaching Methodology	Face-to-Face
Bibliography	Required Readings: Phillip K. Tompkins, Managing Risk and Complexity through Open Communication and Teamwork, Purdue University Press, ISBN-10: 1557537127 Recommended Reading(s) : Jeffrey Rose, Donald Lacher, Managing Public Safety Technology, Routledge; Latest Edition (ISBN 0323296092)
Assessment	
Language	English

Assessment table:

Examinations	60%
Class Participation and Attendance	10%
Practical Mini Project	30%
	100%