

Course Title	Fire Safety Management				
Course Code	OSH640				
Course Type	Elective				
Level	Master (2nd Cycle)				
Year / Semester	1st year/ 2nd semester				
Teacher's Name	TBA				
ECTS	10	Lectures / week	3 hours / 14 weeks	Laboratories / week	N/A
Course Purpose and Objectives	<p>The objective of Fire Safety Management is to equip students will all necessary practical and theoretical that will enable them to prepare a successful, targeted fire strategy. Students will become familiar with performance based aspects of fire safety management and fire safety engineering. The importance of carrying out successful fire risk assessments of deterministic and / or probabilistic nature and the use of their results will be integrated in the learning experience. The use of specialist made software for the calculation of important aspects of fire safety such as radiation, evacuation times and other important aspects.</p>				
Learning Outcomes	<p>Upon successful completion of this course students should be able to:</p> <ul style="list-style-type: none"> Identify risks related to fire in the built environment Use National, EU and International fire safety legislation Distinguish between the different protective measures and means that have to be adopted in the different phases of the building life Develop deterministic and probabilistic fire risk assessments Design a tailor made fire safety protection system based on the outcome of a successful risk assessment Use specialist software to design fire-safe buildings Develop focused fire strategies 				
Prerequisites	None	Required	None		
Course Content	<p>The module will concentrate upon the identification, design and implementation of fire safety management measures and techniques during the design phase and the actual life of the building. A number of issues will be dealt with during the course, among them:</p> <p>e module will concentrate upon the division of lty position once the program is approved. t.ll feed into the existing work of Fire Safety Legislation from Cyprus, UK, USA, Japan etc.</p> <p>Fire Dynamics</p>				

	<p>Deterministic and probabilistic fire risk assessment</p> <p>Design of passive fire protection</p> <p>Design of active fire protection</p> <p>Performance based codes versus legislation</p> <p>Design of egress using hand calculations and/or simulators.</p> <p>Evacuation experimentation, modeling and techniques</p> <p>Fire Strategies</p>								
Teaching Methodology	Face-to-face								
Bibliography	<p>Required Reading(s):</p> <p>Daniel E. Della-Giustina, Fire Safety Management Handbook Latest Edition, CRC Press, ISBN-10: 9781482221220</p> <p>Recommended Reading(s) :</p> <p>Ganapathy Ramachandran, David Charters, Quantitative Risk Assessment in Fire Safety, Routledge, (ISBN 0419207902)</p> <p>Michael Hasofer , V.R. Beck, I.D. Bennetts, Risk Analysis in Building Fire Safety Engineering, Butterworth-Heinemann, (ISBN 075068156X)</p> <p>Bjorn Karlsson, James Quintiere, Enclosure Fire Dynamics, CRC Press</p>								
Assessment	<table border="1"> <tr> <td>Examinations</td> <td>60%</td> </tr> <tr> <td>Class Participation and Attendance</td> <td>10%</td> </tr> <tr> <td>Project</td> <td>30%</td> </tr> <tr> <td></td> <td>100%</td> </tr> </table>	Examinations	60%	Class Participation and Attendance	10%	Project	30%		100%
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