Istanbul Health and Technology University

Engineering Management (With Thesis)			
Master	TR-NQF-HE: Level 7	QF-EHEA: Second Cycle	EQF-LLL: Level 7

Course General Introduction Information

Course Code:	MHY515
Course Name:	Risk Management
Course Semester:	Fall
Course Credits:	ECTS: 3
Language of instruction:	TR
Course Requirement:	
Does the Course Require Work Experience?:	No
Type of course:	Area Ellective
Course Level:	Master | TR-NQF-HE:7. Master`s Degree | QF-EHEA:Second Cycle | EQF-LLL:7. Master`s Degree
Mode of Delivery:	Face to face
Course Coordinator :	Ar.Gör. HAZAL YAREN YALIRSU
Course Lecturer(s):	Dr.Öğretim Üyesi Mustafa Yıldırım
Course Assistants:	

Course Purpose and Content

Course	The main objective of the course is to provide students with the skills to recognize and manage

Objectives:	potential risks in the business environment and to provide them with information about various risk assessment methodologies.
Course Content:	Risk identification, risk perception and risk management principles are examined together with risk assessment methodologies. It examines both qualitative and quantitative risk assessment techniques including FMEA (Failure Mode and Effects Analysis), FTA (Fault Tree Analysis), ETA (Event Tree Analysis), PHA (Preliminary Hazard Analysis), HAZOP (Hazard and Operability Study), L and X type risk matrices and the Butterfly model.

Learning Outcomes

The students who have succeeded in this course;
1) . The student will gain the ability to express risk assessment and risk management principles
2) The student will be able to comprehend and articulate the significance of managing uncertainty in relation to handling threats and opportunities
3) The student will develop the skills to implement the risk assessment process.
4) The student will acquire an understanding of risk assessment methods and apply them to address industrial challenges.

Course Flow Plan

Week	Subject	Related Preparation
1)	Risk Analysis Introduction	
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2)	Risk, Uncertainty, Probability	
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3)	: Risk Management in OHS	
4)	: Risk Assessment in OHS	
5)	Quantitative and Qualitative Risk Assessment Techniques	
6)	Premise Hazard Analysis	
7)	L and X Type Risk Analysis Techniques	
8)	Midterm Exam	
9)	: Event Tree Analysis	
10)	Fault Tree Analysis	

11)	Risk Assessment Examples in OHS	
12)	Bow Tie Risk Analysis Technique	
13)	Hazard and Operability Analysis (HAZOP)	
14)	Final Exam	

Sources

Course Notes / Textbooks:	• Thomas S. Coleman, A Practical Guide to Risk Management,CFA 2011 • Lee T. Ostrom, Cheryl A. Wilhelmsen, Risk Assessment: Tools, Techniques, and Their Applications, Wiley, 2012 • Michel Crouhy, Dan Galai, Robert Mark, The Essentials of Risk Management, McGraw-Hill, 2013
References:	• Thomas S. Coleman, A Practical Guide to Risk Management,CFA 2011 • Lee T. Ostrom, Cheryl A. Wilhelmsen, Risk Assessment: Tools, Techniques, and Their Applications, Wiley, 2012 • Michel Crouhy, Dan Galai, Robert Mark, The Essentials of Risk Management, McGraw-Hill, 2013

Course - Learning Outcome Relationship

No Effect	1 Lowest	2 Medium	3 Highest

	Program Outcomes	Level of Contribution

Learning Activity and Teaching Methods

Measurement and Evaluation Methods and Criteria

Assessment & Grading

Semester Requirements	Number of Activities	Level of Contribution
Presentation	1	% 20
Midterms	1	% 40
Final	1	% 40
total		**% 100**

PERCENTAGE OF SEMESTER WORK		% 60
PERCENTAGE OF FINAL WORK		% 40
total		**% 100**