A	NALYSIS AND EVALU		N OF RISK IN ENVIRONMENTAL NEERING						
1	Course Title:	ANALYSIS AND EVALUATION OF RISK IN ENVIRONMENTAL ENGINEERING							
2	Course Code:	CEV2106							
3	Type of Course:	Optional							
4	Level of Course:	First Cycle							
5	Year of Study:	2							
6	Semester:	4							
7	ECTS Credits Allocated:	3.00							
8	Theoretical (hour/week):	2.00							
9	Practice (hour/week):	0.00							
10	Laboratory (hour/week):	0							
11	Prerequisites:	None							
12	Language:	Turkish							
13	Mode of Delivery:	Face to	face						
14	Course Coordinator:	Prof. Dr	. FATMA OLCAY TOPAÇ						
15	Course Lecturers:								
16	Contact information of the Course Coordinator:	olcaytopac@uludag.edu.tr							
17	Website:								
18	Objective of the Course:	-To teach the place and importance of risk analysis and assessment in occupational health and safety management systemTo give main principles related with sources of hazards and risks in work environmentsTo teach the main risk assessment methods.							
19	Contribution of the Course to Professional Development:								
20	Learning Outcomes:								
		1	Know the significance of occupational health and safety.						
		2	Know the concepts of hazard and risk.						
		3	Have basic knowledge on risk assessment methodologies and related parameters.						
		4	Have theoretical knowledge in order to make risk analysis						
		5							
		6							
		7							
		8							
		9							
		10							
21	Course Content:								
		C	ourse Content:						
Week	Theoretical		Practice						

1	Risk analysis in work health and safe management system, the role of an environmental engineer in the system	•								
2	The concept of hazard and risk, source hazard in working areas of environmental engineers, chemicak hazards									
3	The relationship between source of h hazard-risk-risk control	azard-								
4	The steps of risk assessment, the sca probability-likelihood in risk assessment matrixes, risk scores, risk levels, crea action tables, principles of risk contro	ent, ating								
5	Risk assessment methods, Qualitativ quantitative and mixed methods	e,								
6	Check List method, primary risk asse application areas, sample analysis	ssment,								
7	Fine Kinnet method, scale of probabilifrequency, decision and action according level									
8	Failure mode and effects analysis-FM System FMEA, Design FMEA, Proces FMEA, Service FMEA, probability-ser and dedectability, calculation of risk pnumber	ss verity								
9										
10	Fault tree analysis-FTA, system analyceating fault tree, assessment of fau									
Activites				Number	Duration (hour)	Total Work Load (hour)				
	analysis ical			14	2.00	28.00				
	Event tree analysis- ETA analysis of als/Labs			0	0.00	0.00				
	tho and york peresientation		Г	14	1.00	14.00				
Homew	<u> </u>			1	10.00					
Project	6			0	0.00	0.00				
Field S	Toythooks Poforonces and/or Other		1	<u>Te Sağlığı ve Güvenliğ</u> O	ii Vänatim Sistamla 0.00	ri vo Rick 0.00				
	n exams		Ιş	veren Sendikaları Kon						
Others	- CXAIIIO		2.	Risk Vönetimi ve Deă N	erlendirmesi-ls saŭ 0.00	0.00				
Final E	kams		3.	Çimento Müstahsilleri	हिंदुk₁değerlendirm					
	/ork Load		11	RÔ01 Serdar Sardan 7	nkara 2005	90.00				
	oAksleand/e310 hr					3.00				
	Credit of the Course					3.00				
Midtoro	n Evam	1	2	2.00						
Midterm Exam 1 Quiz 1				20.00 10.00						
Home work-project 1				10.00						
Final Exam 1				60.00						
Total	Λαιιι	100.00								
Contrib	ution of Term (Year) Learning Activities s Grade	es to	40.00							
Contrib	ution of Final Exam to Success Grade)	60.00							
Total			100.00							
Measur Course	rement and Evaluation Techniques Us	sed in the								

24 E	CTS/	TS / WORK LOAD TABLE														
25		CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS														
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0
ÖK2	0	0	0	0	0	0	0	0	0	4	5	0	0	0	0	0
ÖK3	0	0	0	0	0	4	4	0	0	4	4	0	0	0	0	0
ÖK4	0	0	0	0	0	4	4	0	0	4	4	0	0	0	0	0
		<u> </u>	LO: L	.earr	ning (bjec	tive	s P	Q: P	rogra	m Qu	alifica	tions	5	1	•
Contrib ution Level:	ution			2	2 low		3 Medium			4 High			5 Very High			