F	RISK ANALYSIS AND I		JATION FOR ENVIRONMENTAL						
1	Course Title:	RISK AN ENGINE	IALYSIS AND EVALUATION FOR ENVIRONMENTAL						
2	Course Code:	CEV210	6						
3	Type of Course:	Optional							
4	Level of Course:	First Cyc	cle						
5	Year of Study:	2							
6	Semester:	4							
7	ECTS Credits Allocated:	2.00							
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:	Prof.Dr. F. Olcay Topaç olcaytopac@uludag.edu.tr 224 2942109 Bursa Uludağ Üniversitesi, Mühendislik Fakültesi, Çevre Mühendisliği Bölümü.							
17	Website:								
18	Objective of the Course:	 To teach the place and importance of risk analysis and assessment in occupational health and safety management system. To give main principles related with sources of hazards and risks in work environments. To teach the main risk assessment methods. 							
19	Contribution of the Course to Professional Development:	The course raises awareness of the risks that environmental engineers may encounter in their work environments and provides understanding of the risk assessment approach.							
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:								

	Course Content:										
Week	Theoretical		Pract	ice							
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, sour hazard in working areas of environme 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 assessme 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 probabi frequency, decision and action accorrisk level										
8	Failure mode and effects analysis-FM System FMEA, Design FMEA, Proce FMEA, Service FMEA, probability-se and dedectability, calculation of risk p number	ss verity									
Activit			Nu	mber	Duration (hour)	Total Work Load (hour)					
Theore	Hazaro and Operability- HAZOP ana Ical Imethod, process flowchart symbols a	IYSIS	14		2.00	28.00					
Practic	als/Labs		0		0.00	0.00					
Self_stu	dy and preperation		0		0.00						
Homev			1		9.00						
Pro Bect	Homework presentation		0		0.00						
Field S	tudies		0		0.00	0.00					
Midterr	n exams				10.00 ii Vänotim Sistemla	10.00 ri vo Pick					
Others			0		0.00	0.00					
Final E	xams		İşvere	en Sendikaları Kon k Vönetimi ve Deč	f edera syonu TİSK y	(agingarı, 2005.					
Total V	Vork Load					62.00					
Total w	ork load/ 30 hr		3- Çin	nento Müstahsiller	Risk değerlendirm	<u>∌£i</u> 0₩ OHSAS					
ECTS	Credit of the Course					2.00					
23	Assesment										
TERML	EARNING ACTIVITIES	WEIGHT									
Midterm Exam 1				20.00							
Quiz 1				10.00							
Home	work-project	1	10.00								
Final E	xam	1	60.00								
Total		4	100.00								
	Contribution of Term (Year) Learning Activities to Success Grade			40.00							
Contrib	oution of Final Exam to Success Grade)	60.00								
Total			100.00								

Measurem Course	entar		liualio	ii rec	inique	s Use			lienn	exam,	i quiz,	1 HOME	WOIK a	anu inai	exam	
24 EC	TS /	WO	RK L	OAD	TAB	LE										
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	0	0	0	0	4	5	0	0	0	0	0
ÖK4	0	0	0	0	0	0	0	0	0	4	5	0	0	0	0	0
			-0: L	earr	ning C	bjec	tive	s P	Q: P	rogra	ım Qu	alifica	tions	5		<u> </u>
Contrib ution Level:	tion			2 low 3			Medi	um		4 High			5 Very High			