	М	ASS 1	TRANSFER								
1	Course Title:	MASS T	RANSFER								
2	Course Code:	CEV2100									
3	Type of Course:	Optional									
4	Level of Course:	First Cyc	cle								
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									
14	Course Coordinator:	Prof. Dr.	S.SIDDIK CİNDORUK								
15	Course Lecturers:										
16	Contact information of the Course Coordinator:	Uludağ Üniversitesi Mühendislik Fakültesi Çevre Mühendisliği Bölümü Tel: 0224 2942114									
17	Website:										
18	Objective of the Course:	The main objective is recognition of contaminants in air, water, and soil environments between different phases or within the same phase.									
19	Contribution of the Course to Professional Development:										
20	Learning Outcomes:										
		1	To have knowledge on establishment of mass balances								
		2	To be able to know the theories about the transition of pollutants between different phases and to make calculations								
		3	To have knowledge about the theories about the movements of pollutants in the same phase and to be able to make calculations								
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		10									
21	Course Content:										
Mack	Theoretical	CC	Durse Content:								
	Theoretical Mass Balance, Basic Definitions: So	lubility	Practice								
1	Mass Balance, Basic Definitions: Solubility, Steam Pressure, Partition Coefficients										

2	Equilib Equilib Conditi	ium	n Sta	te for	Stabl	e and l		ole											
3		Henry Coefficient's Determination in the Medium, Octanol-Water Coefficient																	
4	Isother	Isotherm, Freundlich, Langmuir																	
5		Applications Related to Langmuir Isotherms, Applications Related to Freundlich Isotherms																	
6	Diffusio	Diffusion, Gas Diffusion, Liquid Diffusion																	
7	Calculation of Flux with Mass Transfer Coefficient (KTK), Calculation of Flux with Diffusion Coefficient (DC)																		
8	Flux Ca with D0	latio	n with	MTC	, Flux (Calcul	ation												
9	I. Fick's	I. Fick's Law, II. Fick's Law Practices																	
10	Midterr	Midterm Exam																	
11	Applica	Application of II. Fick's Law, Mass Transfer																	
12	Mass Transfer in the Interface, Two Film Theory																		
13	Univer: Model	Universal Speed Profile, Gaussian Plume																	
14	Applica Applica																		
22	Textbo	oks.	. Ref	ferenc	es an	d/or Ot	ther		1.E	inviror	nmenta	l Chem	odvnar	nics. N	loveme	nt of			
22 Textbooks, References and/or Other Activites								Number				Duration (hour)			Total Work Load (hour)				
Theore	Theoretical							3.11	landbo	ook on	Atmos	12:00 Diffusion, Han 128, SOR.,							
	L als/Labs	;							یا صل	Diana CA LLE Dana				0.00			0.00		
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Homew		ine Pil								0			2.00 0.00			0.00			
Project										0				0.00					
Field S	n Evon						14		120	0			0.00	0.00					
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Others	بير من البر من ي		•				مل			0			0.00	0.00					
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Total W	Vork Loa	ıd					مل									86.00			
Lonuno Lotal w	ork load	1/38	hr hr	rear) i	_eam	ing Act	ivities	10	40.	00				2.87					
	Lonning Activities to Total work load Success Grade ECTS Credit of the Course														3.00				
							1000												
Total										0.00									
Measur Course	1							d in th	e										
24	ECTS	/ V	VOF	RK L	OAD	TAB	LE												
25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																		
	PQ	1 P	Q2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9		PQ11	PQ12	PQ1	PQ14	PQ15	PQ16		
ÖK1	3	0		0	0	0	0	0	0	0	0 0	0	0	3 0	0	0	0		
ÖK2	0	4		0	0	0	0	0	0	0	0	0	0	0	3	0	0		
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ÖK3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
LO: Learning Objectives PQ: Program Qualifications																	
Contrib ution Level:	ution				2 low			3 Medium			4 High			5 Very High			