CHEMICAL WASTES AND ENVIRONMENTAL POLLUTION

1	Course Title:	CHEMICAL WASTES AND ENVIRONMENTAL POLLUTION
2	Course Code:	FEN0007
3	Type of Course:	Optional
4	Level of Course:	First Cycle
5	Year of Study:	2
6	Semester:	3
7	ECTS Credits Allocated:	4.00
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:	Doç. Dr. SEVGÜL ÇALIŞ
15	Course Lecturers:	
16	Contact information of the Course Coordinator:	Doç.Dr.Sevgül ÇALIŞ scalis@uludag.edu.tr 0-224-2942227
17	Website:	
18	Objective of the Course:	With this course, environmental pollution caused by chemical wastes and ways to prevent it are explained.
19	Contribution of the Course to Professional Development:	Comprehends the concepts related to the field and the relationships between concepts based on the competencies gained in secondary education. Discusses the methods related to the production of scientific knowledge. Uses advanced information sources related to the field. Conceptualizes the facts and events related to the field, examines them with scientific methods and techniques, interprets the data. Defines and analyzes problems related to the field, and develops solutions based on evidence and research. Evaluates the acquired knowledge and skills with a critical approach. It shows that the society and the world is sensitive to the events / developments and monitors these developments. Has sufficient awareness of environmental protection and occupational safety.
20	Learning Outcomes:	
	1	Explain the sources of chemical wastes.
	2	Explains the pollution of the environment with chemicals.
	3	Explain the toxic effects of chemicals.
	4	Explain the effects of chemicals on living things.
	5	Explain the effects of chemicals on the environment.
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21	Course Content:

Course Content:

Week	Theoretical	Practice
1	Introduction to Chemical Wastes and Environmental Pollution	
2	Sources leading to chemical waste	
3	Sources leading to chemical waste	
4	Examples from daily life related to environmental pollution with chemicals	
5	Solid and hazardous wastes	
6	How are we exposed to chemicals? Atmospheric pollution	
7	Effects of atmospheric pollution on the environment	
8	Effects of atmospheric pollution on the environment	
9	Chemical contamination of the soil	
12	Effects of water pollution on the environment	
14	Nuclear/Radioactive contamination	

Materials:
Çınar, O. (2013). Çevre kirliliği ve kontrolü. Nobel Yayıncılık, Ankara.
Kubbealtı Neşriyatı Yayıncılık, İstanbul.
Bosgelmez A. (2000) Ekoloji I. ISVAK Yayınları

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	14	4.00	56.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	18.00	18.00
Others	0	0.00	0.00
Final Exams	1	18.00	18.00
Total Work Load			120.00
Total work load/ 30 hr			4.00
ECTS Credit of the Course			4.00

TERM LEARNING ACTIVITIES	**NUMBE**	**WEIGHT**
Midterm Exam	1	40.00
Quiz	0	0.00
Home work-project	0	0.00
Final Exam	1	60.00
Total	2	100.00
Contribution of Term (Year) Learning Activities to Success Grade		40.00
Contribution of Final Exam to Success Grade		60.00
Total		100.00

Measurement and Evaluation Techniques Used in the Course	Techniques such as lecture, discussion, question-answer, 3E are used in the teaching of the course. Midterm and final exams are taken into consideration in the measurement and evaluation of the course.

24	**ECTS / WORK LOAD TABLE**

25	**CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS**															
	PQ1	**PQ2**	**PQ3**	**PQ4**	**PQ5**	**PQ6**	**PQ7**	**PQ8**	**PQ9**	**PQ10**	**PQ11**	**PQ12**	**PQ13**	**PQ14**	**PQ15**	**PQ16**
ÖK1	5	1	1	5	5	1	1	1	5	5	1	1	1	1	1	1
ÖK2	5	1	1	5	5	1	1	1	5	5	1	1	1	1	1	1
ÖK3	5	1	1	5	5	1	1	1	5	5	1	1	1	1	1	1
ÖK4	5	1	1	5	5	1	1	1	5	5	1	1	1	1	1	1
ÖK5	5	1	1	5	5	1	1	1	5	5	1	1	1	1	1	1
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	**1 very low**		**2 low**			**3 Medium**				**4 High**			**5 Very High**			