

BALIKESIR UNIVERSITY
ENGINEERING FACULTY
UNIVERSITY ELECTIVE COURSE PROPOSAL FORM

Department/Program	Environmental Engineering					
Course Unit Title	Waste Management					
Semester	Fall ☐			Spring ☒		
Language of Instruction	Turkish ☒			English ☐		
Credit	Theoretical	2		Application		Total Credit 2
Number of ECTS Credits	3					
Course Learning Type	University Elective			Formal Education		
Objectives of the Course	To learn the basic concepts of waste management, legal legislation, waste reduction, recovery, storage and final disposal processes and to have an idea about the cleanup of land contaminated with hazardous wastes.					
Course Content	Principles of waste management, management and identification of wastes, collection, transportation, storage and treatment processes of wastes, the place of waste management in laws and regulations.					
Prerequisites	There are no prerequisites for the course					
Name of Lecturer	Arş.Gör. Dr. Elif ÇALGAN			mail :eliftekin@balikesir.edu.tr		
Assistants				mail :		
Internship						
Resources	-LaGrega, M. D., Buckingham, P. L., & Evans, J. C. (2001). Hazardous waste management. 2nd ed. Boston, MA: McGraw-Hill. -Williams, P T, (2005). Waste Treatment and Disposal. Second Edition. John Wiley & Sons. Chichester.					
Type of Course Unit	Science					
Planned Learning Activities and Teaching Methods	Theoretical lecture, Midterm exam, Final exam					
Assessment methods and criteria			ECTS allocated based on student workload			
In-term Studies	Quantity	Percentage (%)	Activities	Quantity	Duration	Total workload (Hours)
Midterms	1	40	Course Duration	14	2	28
Quizzes			Off the class study hours	0	2	0
Assignment			Midterms	1	2	2
Attendance			Final Exam	1	2	2
Practice			Total workload (hours): 32			
Project			Number of ECTS Credits: 3			
Final Exam	1	60				
Learning outcomes	1.To have knowledge about waste management 2. Evaluation of the economic aspects of waste management 3. Assessing the link between legal and economic instruments 4. Understanding and evaluating the waste market triangle of waste generation-waste treatment-technology generation					

Weekly Detailed Course Contents			
Week	Topic	Prerequisites	Resources
1	Introduction to the management of waste		
2	The history of waste management		
3	Classification of waste		
4	Sustainable environment		
5	Waste Management		
6	Waste Disposal		
7	Waste Recycling		
8	Midterm exam		
9	Waste Recovery		
10	Legal regulations		
11	Hazardous waste		
12	Collection, transportation and temporary storage of hazardous waste		
13	Final disposal of hazardous waste		
14	Hazardous waste management in the world		
Contribution of the Course to Program Outcomes			