



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Solid Wastes							
Course Code		ÇS102		Couese Level		Short Cycle (Associate's Degree)			
ECTS Credit	2	Workload	77 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		Teaching of the concept of general solid waste management, investigatiton of disposal methods with technical, economical and legal dimensions.							
Course Content		Solid wastes; description; classificationandcharacteristics; Solid wastemanagement; Basic tools of management; thecollection, transfer anddeposition of solidwaste; Solid Waste Minimization; Disposal of solid waste.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Case Study, Individual Study					
Name of Lecturer(s)									

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

Recommended or Required Reading

1	1. Katı atıklar, Prof. Dr.ErtuğrulErdin . Dokuz eylül yayınları
2	2. Katı Atıkların Yönetimi;TMMOB Çevre Mühendisleri Odası;İzmir-2005

Week	Weekly Detailed Course Contents	
1	Theoretical	Solid Waste Definition, classification, composition, properties, sources
	Preparation Work	Projection apparatus, slates and supporter books
2	Theoretical	Analysis used to determine characteristics of solid wastes, (physical and chemical analysis)
	Preparation Work	Projection apparatus, slates and supporter books
3	Theoretical	Components of solid waste, separation, storage, transportation at the source
	Preparation Work	Projection apparatus, slates and supporter books
4	Theoretical	Disposal methods of solid wastes (sanitary landfilling)
	Preparation Work	Projection apparatus, slates and supporter books
5	Theoretical	Disposal methods of solid wastes (composting)
	Preparation Work	Projection apparatus, slates and supporter books
6	Theoretical	Disposal methods of solid wastes (incineration)
	Preparation Work	Projection apparatus, slates and supporter books
7	Theoretical	Pyrolysis (thermal decomposition), gasification, biogas production and systems,
	Preparation Work	Projection apparatus, slates and supporter books
8	Intermediate Exam	Midterm
9	Theoretical	The recovery of the components, processing and secondary products
	Preparation Work	Projection apparatus, slates and supporter books
10	Theoretical	The recovery of the components, processing and secondary products
	Preparation Work	Projection apparatus, slates and supporter books
11	Theoretical	Investigation of solid waste regulation
	Preparation Work	Projection apparatus, slates and supporter books
12	Theoretical	Investigation of solid waste regulation
	Preparation Work	Projection apparatus, slates and supporter books
13	Theoretical	Regulation of controlling of medical wastes
	Preparation Work	Projection apparatus, slates and supporter books
14	Theoretical	Regulation of controlling of radioactive wastes
	Preparation Work	Projection apparatus, slates and supporter books



15	Theoretical	Regulation of controlling of dangerous and harmful wastes
	Preparation Work	Projection apparatus, slates and supporter books

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	2	2	56
Individual Work	8	1	1	16
Midterm Examination	1	1	1	2
Final Examination	1	2	1	3
Total Workload (Hours)				77
[Total Workload (Hours) / 25*] = ECTS				3

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	To be able to recall the knowledge about sources and classification of solid waste
2	To be able to recall the knowledge about disposal methods of solid waste
3	To be able to recall the knowledge about landfill sites
4	To be able to recall the knowledge about recycling and recovery
5	To be able to recall the regulations about solid waste management

Programme Outcomes (Environmental Health)

1	They have the appropriate level of knowledge about the basic sciences which has an interaction with the environment and the environment itself.
2	They have gained the basic concepts, skills and qualifications in the Environmental health theoretical and practical lessons. And then they can establish the connections that are necessary to protect the environment and people's health in the light of these competencies.
3	They can use the approaches and the information of basic and applied research in different disciplines. They can follow the innovations and developments in their field, and have self-development competency with the terms of the day.
4	They know and apply the analysis methods used in the evaluation of environmental factors (drinking water, waste water treatment, air pollution, meteorological data, land values, food control, radiation measurement, etc.).
5	They have a professional and ethical consciousness, and have the ability to recognize the environmental problems and also can formulate a solution to these problems. They apply the gained knowledges and skills faced in real life situations, transfers the knowledge to individuals around, and wins the life-long learning behavior.
6	They are able to use their professional knowledge in their lives and behave sensitively toward the local and global environmental problems and effectively uses to the legislation and management tools the necessary for the solution.
7	Gained the ability to adapt the changing in a positive way themselves, to understand the core values and cultures of the society which are living. Sensitive to the universal and the social values, interests of the country, have adopted the concept of sustainable development, environmentally conscious, productive, behaves aware of the ethical and professional responsibility.
8	Provides a healthy interact of individual, society and the environment and take responsibility in the necessary situations for the continuity.
9	They gain the ecologically-based solving skills the problems and the delays that may arise in interaction with each other of living and nonliving environment. Interests of local and national, and Ecological and historical values of our country, and contribute to the protection and the development of them.
10	Exhibits the appropriate behaviours for the protection and the development of plants, animals, and inanimate environment, and the especially human health.
11	Knows the value of energy for life, recognizes the types of energy, and have conscious of the importance, using and dissemination of renewable energy sources.
12	Knows the properties of information and communication technologies, and uses them in the process efficiently and professionally.
13	They aware of the democracy, rule of law, human rights, the national and universal cultural characteristics, and sensitive towards to the nature, society and people.
14	Knows the importance of Ataturk's principles and reforms, make them a way of life.
15	Uses effectively the Turkish in speaking and writing.
16	Has at least one foreign language ability to be able to follow the knowledge in their profession and to communicate with colleagues.
17	To have the appropriate knowledge of medical sciences at the level of interest, to use specific medical terms and terminology of field

Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

	L1	L2	L3	L4	L5
P1	4	4	4	4	4
P2	4	4	4	4	4
P3	4	4	4	4	4
P4	4	4	4	4	4
P5	5	5	5	5	5
P6	5	5	5	5	5
P8	5	5	5	5	5
P9	5	5	5	5	5
P10	4	4	4	4	4
P11	5	5	5	5	5

