

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Thermodynan	nics and Heat	Transfer					
Course Code	AEK112		Couse Leve	; 	Short Cycle (/	Associate's D) Degree)	
ECTS Credit 3	Workload	78 (Hours)	Theory	3	Practice	0	Laboratory	0
Objectives of the Course	Fundamental transfer.	objective of th	ne course is to	o ensure si	tudents to gain	principles of	thermodynamic a	and heat
Course Content							nts to be competer nergy resources p	
Work Placement	N/A							
Planned Learning Activities and Teaching Methods			Explanation	(Presenta	tion), Demonst	ration, Indivi	dual Study	
Name of Lecturer(s)	s) Ins. Emre IŞIKLI							

Assessment Methods and Criteria

Method	Quantity	Percentage (%)	
Midterm Examination	1	40	
Final Examination	1	70	

Recommended or Required Reading

1 Termodinamik Mühendislik Yaklaşımlarıyla

Week	Weekly Detailed Co	urse Contents
1	Theoretical	Giriş ve Temel Kavramlar
2	Theoretical	Enerji Dönüşümü ve Genel Enerji Analizi
3	Theoretical	Saf Maddenin Özelikleri
4	Theoretical	Saf Maddenin Özelikleri
5	Theoretical	Kapalı Sistemlerin Enerji Analizi
6	Theoretical	Kütle ve Enerji Analizi
7	Theoretical	Kütle ve Enerji Analizi
8	Theoretical	Termodinamiğin ikinci yasası
9	Theoretical	Second law of thermodynamics
10	Theoretical	Entrophy
11	Theoretical	Entrophy
12	Theoretical	Isı Aktarım Mekanizmaları
13	Theoretical	Yatışkın Durumda Isı Aktarımı ve Isı Direnç Ağları
14	Theoretical	Zorlanmış Taşınım İsi Aktarımı
15	Theoretical	Zorlanmış Taşınım İsi Aktarımı
16	Final Exam	Final

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	13	0	2	26
Assignment	10	0	2	20
Reading	10	0	2	20
Midterm Examination	1	5	1	6
Final Examination	1	5	1	6
		Т	otal Workload (Hours)	78
		[Total Workload	(Hours) / 25*] = ECTS	3

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1



2	
3	
4	
5	

 To have knowledge about basic science and technology. To have knowledge about basic energy and alternative energy sources. To have knowledge about basic electrical and electronic laws. To have knowledge about the installation and operation of energy facilities. Learning the methods of recycling of waste and use of energy. To have experience in energy generation and project design. 	Progr	amme Outcomes (Alternative Energy Sources Technology)
 3 To have knowledge about basic electrical and electronic laws. 4 To have knowledge about the installation and operation of energy facilities. 5 Learning the methods of recycling of waste and use of energy. 	1	To have knowledge about basic science and technology.
 4 To have knowledge about the installation and operation of energy facilities. 5 Learning the methods of recycling of waste and use of energy. 	2	To have knowledge about basic energy and alternative energy sources.
5 Learning the methods of recycling of waste and use of energy.	3	To have knowledge about basic electrical and electronic laws.
	4	To have knowledge about the installation and operation of energy facilities.
6 To have experience in energy generation and project design.	5	Learning the methods of recycling of waste and use of energy.
	6	To have experience in energy generation and project design.

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	5	5	5	5	5
P3	4	4	4	4	4

