AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Pyrolysis Method								
Course Code	AEK116		Couse Level	Short Cycle (Associate's Degree)					
ECTS Credit	3	Workload	74 *(Hours)*	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	Within the scope of the present study, students given theories and technological advancements relevant with waste management as well as pyrolisis method, mechanism, reactions and current examples.								
Course Content	Fundamentals of pyrolisis method, its mechanical operations, relevant chemical reactions and principles, waste management facilities, curent transformation systems as well as relevant methods.								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Case Study, Individual Study								
Name of Lecturer(s)									

Assessment Methods and Criteria		
Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	70

Recommended or Required Reading	
1	Alternatif Enerji Kaynakları Yazar: Mustafa Acaroğlu

Week	Weekly Detailed Course Contents	
1	Theoretical	Introduction, solid waste concept
2	Theoretical	Solid waste management
3	Theoretical	Amount and constituents of solid waste, solid waste analysis methods
4	Theoretical	Classification of solid waste, chemical composition of solid waste
5	Theoretical	Collecting solid waste, route determination, transfer stations
6	Intermediate Exam	Midterm exam
7	Theoretical	Solid waste disposal methods, recycling, reusing
8	Theoretical	Pyrolysis technic, general principles
9	Theoretical	Physical and chemical steps in pyrolysis method
10	Theoretical	Prolysis processes of different waste products
11	Theoretical	Prolysis processes of different waste products
12	Theoretical	Prolysis processes of different waste products
13	Theoretical	Examples of energy production plants
14	Theoretical	Storage and disposal of waste products
15	Final Exam	Final exam

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	13	1	1	26
Assignment	6	1	1	12
Project	3	2	2	12
Individual Work	6	1	1	12
Midterm Examination	1	5	1	6
Final Examination	1	5	1	6
			Total Workload (Hours)	74
			[Total Workload (Hours) / 25*] = **ECTS**	3
**25 hour workload is accepted as 1 ECTS*				

Learning Outcomes	
1	Defines waste product and classifies

2	Learns material classification, analysis methods of physical, chemical parameters.
3	Learns pyrolysis methods and usage areas.
4	
5	

Programme Outcomes *(Alternative Energy Sources Technology)*	
1	To have knowledge about basic science and technology.
2	To have knowledge about basic energy and alternative energy sources.
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.
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	3	3	3	3	3
P2	4	4	4	4	4
P5	5	5	5	5	5