



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Concrete Technology							
Course Code		İNA102		Couse Level		Short Cycle (Associate's Degree)			
ECTS Credit	5	Workload	125 (<i>Hours</i>)	Theory	3	Practice	1	Laboratory	0
Objectives of the Course		With this course, the student will be able to control the production phases according to the standards of the ordered concrete.							
Course Content		He will be able to make cement, aggregate and concrete tests suitable for the standard. He will be able to use additives according to concrete properties. He will be able to carry out concrete transfer, casting and maintenance according to the standard.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Experiment, Demonstration, Discussion, Case Study, Project Based Study, Individual Study, Problem Solving					
Name of Lecturer(s)		Lec. Korkmaz YILDIRIM							

Assessment Methods and Criteria

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

Recommended or Required Reading

1	Concrete Technology (M.Selçuk GÜNER)
2	All sources and internet sites related to building materials
3	Materials Science (M.Selçuk GÜNER)

Week	Weekly Detailed Course Contents	
1	Theoretical	Cement, Consistency, Cement, Socket Binding materials
2	Theoretical	Volume Constancy in Cement
3	Theoretical	Specific Weight in Cement
4	Theoretical	Resistance in Cement
5	Theoretical	Unit Volume and Specific Weight in Aggregate
	Practice	Unit Volume and Specific Weight in Aggregate
6	Theoretical	Sieve Analysis in Aggregate
	Practice	Sieve Analysis in Aggregate
7	Theoretical	Aggregate Water Absorption Rate, Wear Loss in Aggregate, Thin Substance Ratio in Aggregate
	Practice	Aggregate Water Absorption Rate, Wear Loss in Aggregate, Thin Substance Ratio in Aggregate
8	Theoretical	Aggregate Water Absorption Rate, Wear Loss in Aggregate, Thin Substance Ratio in Aggregate
	Practice	Aggregate Water Absorption Rate, Wear Loss in Aggregate, Thin Substance Ratio in Aggregate
9	Intermediate Exam	Mid-term
10	Theoretical	Concrete Unit To make the volume weight test
	Practice	Concrete Unit To make the volume weight test
11	Theoretical	Making Concrete Consistency Tests
	Practice	Making Concrete Consistency Tests
12	Theoretical	Making Concrete Consistency Tests
	Practice	Making Concrete Consistency Tests
13	Theoretical	Concrete Coring Do The Experiment
	Practice	Concrete Coring Do The Experiment
14	Theoretical	The use of mineral additives in concrete
15	Theoretical	Maintenance of concrete transportation and casting of concrete
16	Final Exam	final exam



Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	3	42
Lecture - Practice	14	0	1	14
Assignment	1	0	10	10
Project	3	0	5	15
Laboratory	5	0	5	25
Reading	2	0	2	4
Quiz	3	0	1	3
Midterm Examination	1	5	1	6
Final Examination	1	5	1	6
Total Workload (Hours)				125
[Total Workload (Hours) / 25*] = ECTS				5
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	Suitable standard tests on cement will be able to do
2	That meets the standard aggregate tests will be able to do
3	That meets the standard will be able to do tests on concrete
4	According to the properties of the concrete contribute
5	Concrete that meets the standard for a transplant, you will be able to cast and maintain

Programme Outcomes (Construction Technology)

1	Being able to have professional knowledge and skills as a result of being supported by the application on vocational qualifications gained in secondary education
2	To choose and use building materials
3	Building installations can be done
4	Applying concrete technology
5	Construction of roads
6	To be able to make professional computer applications
7	Technical drawings
8	Making professional drawing
9	Bidding and contracting
10	To be able to organize the site
11	Control and documentation of manufacturing
12	Can make application of building repair and strengthening works
13	To be able to determine soil types and make soil tests
14	Can control water supply and transmission activities
15	Making waste treatment facilities for polluting resources
16	Projecting of construction elements
17	Being able to make a professional project
18	Make land measurements
19	To be able to make professional practices

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
P2	5	5	5	5	5
P3					3
P4	5	5	5	5	5
P5					5
P10					4
P11	3	3	4	4	3
P12	4	4	4	4	5
P13		5			



P14					4
P15					5
P19	4	4	4	4	4

