



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Reinforced Concrete							
Course Code		İNA203		Couse Level		Short Cycle (Associate's Degree)			
ECTS Credit	4	Workload	100 ( <i>Hours</i> )	Theory	3	Practice	1	Laboratory	0
Objectives of the Course		With this course, the student will be able to design the bearing systems in terms of section area sizing, reinforcement amount and reinforcement placement.							
Course Content		Static calculations and design of reinforced concrete slabs, beams, columns, basic elements							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Experiment, Demonstration, Discussion, 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	Calculation and Design of Reinforced Concrete Structures (A.DOĞANGÜN)
2	Concrete (U.YÜCESOY)

Week	Weekly Detailed Course Contents	
1	Theoretical	Static calculations of the floor
2	Theoretical	Static calculations of the floor
3	Theoretical	Flooring Design
4	Theoretical	Flooring Design
	Practice	Flooring Design
5	Theoretical	Static calculations of beams
6	Theoretical	Beam Design
7	Theoretical	Beam Design
	Practice	Beam Design
8	Theoretical	Static calculations of columns
9	Intermediate Exam	Midterm
10	Theoretical	Static calculations of columns
11	Theoretical	Column Design
12	Theoretical	Column Design
	Practice	Column Design
13	Theoretical	Basic loads
14	Theoretical	Basic Design
15	Theoretical	Basic Design
	Practice	Basic Design
16	Final Exam	Semester final exam

### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	3	42
Lecture - Practice	14	0	1	14
Assignment	4	0	5	20
Project	2	0	4	8
Laboratory	2	0	1	2
Quiz	2	0	1	2



Midterm Examination	1	5	1	6
Final Examination	1	5	1	6
Total Workload (Hours)				100
[Total Workload (Hours) / 25*] = ECTS				4

\*25 hour workload is accepted as 1 ECTS

### Learning Outcomes

1	Static calculations and design of reinforced concrete slabs
2	Static calculations and design of reinforced concrete beams
3	Static calculations and design of reinforced concrete columns
4	Static calculations and design of reinforced concrete foundation elements.
5	Basic Design

### 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
P1	5	5	5	5
P4	4	4	4	4
P6	4	4	4	4
P11	4	4	4	4
P12	5	5	5	5
P14			4	
P16	4	4	4	4
P17	4	4		4
P19	4	4	4	4

