



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Statistics							
Course Code		IYO211		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	3	Workload	75 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		The aim of the course is to teach students basic statistical concepts and to help them make more realistic decisions when making decisions about their profession in the working life using statistical methods							
Course Content		Measures of central tendency: Arithmetic mean, median, mode, harmonic mean, geometric mean Measures of dispersion, skewness and kurtosis: Measures of standard deviation, skewness and kurtosis Indices: Simple index, composite index Probability theory: Addition rule, multiplication rule, conditional probability , total probability and Bayes theorem							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation)					
Name of Lecturer(s)		Ins. Halil TEKATLI							

### Assessment Methods and Criteria

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

### Recommended or Required Reading

1	AYDIN, Celal, Akif Bakır; İstatistik, Nobel Yayıncılık, Ankara, 2010
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Week	Weekly Detailed Course Contents	
1	Theoretical	Statistical definition, purpose, fields of activity and some basic concepts
	Preparation Work	Related chapter in the course book
2	Theoretical	Data collection, processing and editing. Graphic presentation of data.
	Preparation Work	Related chapter in the course book
3	Theoretical	Measures of central tendency: Mean, median, mode, average, quartiles.
	Preparation Work	Related chapter in the course book
4	Theoretical	Measures of central tendency: Mean, median, mode, average, quartiles.
	Preparation Work	Related chapter in the course book
5	Theoretical	Dispersion, skew and kurtosis Measurements: Change range, average deviation, standard deviation
	Preparation Work	Related chapter in the course book
6	Theoretical	Dispersion, skew and kurtosis dimensions: Exchange coefficient and coefficient of skew
	Preparation Work	Related chapter in the course book
7	Theoretical	Dispersion, skew and kurtosis Measurements: Moments
	Preparation Work	Related chapter in the course book
8	Theoretical	Some basic concepts, probability concepts, the basic features of probability, probability rules
	Preparation Work	Related chapter in the course book
9	Intermediate Exam	Midterm
10	Theoretical	Conditional probability
	Preparation Work	Related chapter in the course book
11	Theoretical	Bayes theorem
	Preparation Work	Related chapter in the course book
12	Theoretical	Bayes Theorem and Probability exercise
	Preparation Work	Related chapter in the course book
13	Theoretical	Correlation analysis
	Preparation Work	Related chapter in the course book
14	Theoretical	Correlation analysis
	Preparation Work	Related chapter in the course book



15	Final Exam	Final Exam
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**Workload Calculation**

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	1	2	42
Midterm Examination	1	14	1	15
Final Examination	1	17	1	18
Total Workload (Hours)				75
[Total Workload (Hours) / 25*] = ECTS				3

\*25 hour workload is accepted as 1 ECTS

**Learning Outcomes**

1	To be able to explain subject, scope and concept of statistics.
2	To be able to collect data and convert to data series
3	They can achieve healthy outcomes by subjecting the data obtained to evaluations.
4	Gain analytical thinking ability
5	They can make an analysis of the mathematical data they will encounter in their work life

**Programme Outcomes (Business Administration Management)**

1	Use the economical information obtained in micro and macro scale, in their occupational lives.
2	Use information and communication technologies at the level required by their field.
3	Manage business finance, analyze business financial situation, and solve financial problems.
4	Gain management skill by managing and enhancing human resource effectively in accordance with business aims
5	Understand production and marketing functions as a whole, have proficiency in applying new production and marketing techniques.
6	Have proficiency in calculating cost, making entry, preparing and interpreting financial statements
7	Have proficiency in using business management function and applying and following new management techniques
8	Have proficiency for performing legal responsibilities of business, following and applying legislation
9	Have proficiency in following and applying vocational current and economic developments in national and international area.
10	Take responsibilities as a team member when dealing with issues and problems encountered in practice
11	Have the ability to use the computer and the required packaged software
12	Have the professional ethics in business life and business relations

**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	1	3	1	3	3
P2	5	4	5	4	1
P3	3	4	3	4	2
P4	1	1	1	1	2
P5	4	1	4	1	2
P6	1	1	1	1	1
P7	1	2	1	2	3
P8	1	1	1	1	3
P9	1	1	1	1	3
P10	1	1	1	1	3
P11	4	5	4	5	1
P12	1	1	1	1	1

