AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Statıstıcs						
Course Code	IYO211		Couse Level	Short Cycle (Associate's Degree)			
ECTS Credit	2	Workload	50 *(Hours)*	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	The objective of this course is to help students by teaching statistical inference methods used in decision making during professional life and to help them develop their scientific thinking.						
Course Content	Measures of central propensity: Arithmetic mean, median, mode, harmonic mean, geometric meanMeasures of distribution, skewness and kurtosis: Range, standard deviation, skewness and kurtosis measures. Possibility theory: Addition rule, multiplication rule, conditional possibility, aggregate possibility and the Bayes theorem. Correlation analysis						
Work Placement	N/A						
Planned Learning Activities and Teaching Methods			Explanation (Presentation)				
Name of Lecturer(s)							

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

Recommended or Required Reading

1	AYDIN, Celal, Akif Bakır; İstatistik, Nobel Yayıncılık, Ankara, 2010

Week	Weekly Detailed Course Contents	
1	Theoretical	The definition, purpose and scopes statistics, 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 Exam
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

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	15	0.5	1	22.5
Lecture - Practice	15	0.5	1	22.5
Midterm Examination	1	1	1	2
Final Examination	1	2	1	3
Total Workload (Hours)				50
[Total Workload (Hours) / 25*] = **ECTS**				2

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	do data analysis related to their business life via the information that they gained.
2	do statistical implications.
3	gain ability in analytical thinking.