Content

Course Code	Course Name	Semester	Theory	Practice	Lab	Credit	ECTS
Mİ501	Applied Statistics	1	3	0	0	3	6

Prerequisites	
Admission Requirements	

Language of Instruction	Turkish
Course Type	Elective
Course Level	Masters Degree
Objective	The objective of this course is to familiarize students with basic concepts and tools of statistical methodology
Content	Week 1. Introduction to Statistics Week 2. Statistical series Week 3. Graphs to describe numerical variables Week 4. Measures of central tendency Week 5. Measures of variability Week 6.Probability and its postulates Week 7. Probability Rules Week 8. Bayes theorem Week 9. Random variables, mathematical expectation, variance and standard deviation Week 10.Discrete and continuous random variables and probability distributions Week 11. Hypergeometric distribution, Binomial distribution Week 12. The poisson probability distribution, the normal distribution Week 13.Analyse of variance Week 14. Analyse of Regression
References	Bernard Grais, “Statistique descriptive”,3eme edition, Dunod, Paris 1994 Paul Newbold, William L.Carlson, Betty Thorne, “Statistics for Business and Economics”, 6th edition, Prentice Hall, Upper Saddle River, New Jersey, 2007 Roger C. Pfaffenberger, James H. Patterson, “Statistical Methods for Business and Economics”, Irwin 2003Business Communication Today

Theory Topics

Week	Weekly Contents
1	Introduction to Statistics
2	Statistical series
3	Graphs to describe numerical variables
4	Measures of central tendency
5	Measures of variability
6	Probability and its postulates
7	Probability Rules
8	Bayes theorem

Week	Weekly Contents
9	Random variables, mathematical expectation, variance and standard deviation
10	Discrete and continuous random variables and probability distributions
11	Hypergeometric distribution, Binomial distribution
12	The poisson probability distribution, the normal distribution
13	Analyse of variance
14	Analyse of Regression