

### COURSE DESCRIPTION

**Title:** **APPLIED STATISTICS FOR MANAGERIAL DECISIONS**

**Compulsory** ☒

**Elective** ☐

**Lecturer(s):** Efstathios Klonaris, Professor AUA  
Panagiotis Lazaridis, Emeritus Professor AUA  
Chrysovalantis Malesios, Assistant Professor AUA

**Winter** ☒

**Spring** ☐

### COURSE GOALS

The aim of the current course is to describe the most widespread methods of statistical data analysis in a simple way without complex mathematical proofs and formulas, so that it is possible to be understood by all students of different research backgrounds and directions who will deal with the Management of Food Businesses. For this reason, particular emphasis has been placed on examples, exercises and case studies that are presented and analyzed in a suitably organized computer lab.

### COURSE CONTENTS

<i>Unit</i>	<i>Hrs</i>
1. Descriptive statistics	6
2. Point and interval estimation	3
3. Hypotheses testing	6
4. Non parametric analysis	3
5. Simple linear regression	6
6. Multiple linear regression	6
7. Violation of basic assumptions in regression	3
8. Dummy variables	3

### TEACHING METHOD

#### HOURS

Taught	26
Seminar	No of indiv. assignments
Collaboration with lecturer	
Laboratory	10
	No of group assignments
TOTAL:	36

### EXAMINATION

#### Weight

Written exam	100%
Orals	
Individual assignments	
Group assignments	
TOTAL:	100%

### BIBLIOGRAPHY

- Gerald Keller, Statistics for Economics and Business Administration, Epikentro (in Greek),
- Halkos G. Statistics, Typothito-Dardanos (in Greek)

### NOTES