

POLI ESCOLA SUPERIOR TECNOLOGIA GESTÃO TÉCNICO GUARDA	SUBJECT DESCRIPTION	MODELO PED.013.03
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Course	Management					
Subject	Statistics					
Academic year	2023/2024	Curricular year	2nd	Study period	1st semester	
Type of subject	Compulsory	Student workload (H)	Total: 196	Contact: 75	ECTS	7
Professor(s)	Manuela Figueira Neves					
☒ Area/Group Coordinator ☐ Head of Department		(select)	José Miguel Rodrigues Salgado			

PLANNED SUBJECT DESCRIPTION

1. LEARNING OBJECTIVES

Objectives:

Acquire knowledge and competence in statistics, using data treatment methods and techniques to prepare reports, analyses and evaluations for business sciences.

Skills to be acquired by students:

Acquisition of knowledge of descriptive statistics and data interpretation.
 Estimation and evaluation of regression.
 Ability to calculate probabilities.
 Ability to work with various probability distributions
 Ability to undertake a study of sampling and statistical inference.

2. PROGRAMME

Data presentation
 Measures of central tendency
 Measures of dispersion, asymmetry, leveling and concentration
 Correlation and regression
 Basic probability theory
 Random variables and distributions
 Special distributions
 Sampling theory
 Interval estimation
 Hypothesis testing
 Nonparametric tests
 Analysis of variance

3. COHERENCE BETWEEN PROGRAMME AND OBJECTIVES

Through theoretical and practical lectures, the students acquire theoretical knowledge of the syllabus topics and are able to apply these to practical situations related to Management. Tutorial accompaniment in person is relevant for application of the theoretical knowledge to practical cases as is solving practical exercises. The e-learning platform as a component of distance learning should help the student to accompany the material. Throughout the semester, problems are resolved and practical cases are studied. The theoretical and practical component and the resolution of practical cases should help the students acquire knowledge

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and competence for statistics to be able to carry out data treatment for reports, analyses, and evaluations in the business sciences.

4.MAIN BIBLIOGRAPHY

Fonseca, Jaime (2001) “Estatística Matemática” vol 1 e vol 2 Ed. Sílabo.
 Fonseca, Jaime e Torres, Daniel (2011) “Exercícios de Estatística-vol 1”, 2ª edição, Ed. Sílabo.
 Fonseca, Jaime e Torres, Daniel (2002) “Exercícios de Estatística-vol 2”, Ed. Sílabo.
 Guimarães,R (2010) “Estatística” McGraw-Hill.
 Neves, Manuela Figueira (2023). “Caderno de Exercícios de Estatística”, material didático para a UC de Estatística, ESTG/IPG.
 Murteira, B.; Ribeiro, C.S.; Silva, J.A. e Pimenta, C. (2007) “Introdução à Estatística”, 2ª edição, McGraw-Hill.
 Reis, Elizabeth (2009) “Estatística Descritiva”, 7ª edição, Ed. Sílabo.
 Reis,E.;Melo,P.;Andrade,R.e Calapez,T.(2007) “Estatística Aplicada” vol.1, 5ª edição, Ed. Sílabo.
 Reis,E.;Melo,P.;Andrade,R.e Calapez,T.(2001) “Estatística Aplicada” vol.2, 4ª edição, Ed. Sílabo.

5. TEACHING METHODOLOGIES (INCLUDING EVALUATION)

Teaching methodology:

Practical and theoretical lectures with practical examples and application related to the course of study. Tutorials. Blackboard e-learning platform for distance learning.

Evaluation:

Students select their assessment from the following:

Ongoing assessment – two written tests (100%) with a minimum score each of 5/20 for an overall average greater than or equal to 10/20; or Exam – one written test (100%).

In each case, students with a final score greater than or equal to 16/20 will sit for an oral exam or accept the final score of 16.

6. COHERENCE BETWEEN TEACHING METHODOLOGIES AND OBJECTIVES

Because students should acquire competence to carry out statistical data treatment, these topics are included in the syllabus for analysis and treatment of diverse types of data. Students should be able to prepare reports, analyses, and evaluations for business science.

7. ATTENDANCE

Not Applicable

8. CONTACTS AND OFFICE HOURS

Maria Manuela Caria Figueira de Sá Neves, mfigueira@ipg.pt, Office 44; Ext: 1244

Office hours: Monday – 9:00 to 12:30

Friday – 9:00 to 11:00

Evaluation date: 1st test: 08/11/2023 – cap. 1 to cap. 5

9. DATE

18 September 2023Clique

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SIGNATURES

Professor(s), Area/Group Coordinator or Head of Department signatures

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