

POLI ESCOLA SUPERIOR TECNOLOGIA GESTÃO TÉCNICO GUARDA	SUBJECT DESCRIPTION	MODELO PED.013.03
---	----------------------------	-----------------------------

Course	Topographic Engineering					
Subject	Automatic Cartography					
Academic year	2023-2024	Curricular year	2nd	Study period	1st semester	
Type of subject	Compulsory	Student workload (H)	Total: 168	Contact: 75	ECTS	6
Professor(s)	PhD Eufémia da Glória Rodrigues Patrício					
<input checked="" type="checkbox"/> Area/Group Coordinator <input type="checkbox"/> Head of Department	(select)	PhD Maria Elisabete Soares				

PLANNED SUBJECT DESCRIPTION

1. LEARNING OBJECTIVES

Qualify the students with methods and digital techniques of conception of topographic and cartographic numeric models seeking the production of maps.

2. PROGRAMME

Introduction

Cartographic Drawing.

Organization, management and planning for Cartographic production.

Cartographic norms.

Geo-reference images in raster format.

Cartographic digitizing of images in analogical format.

Automatic applications in the Cartography.

3. COHERENCE BETWEEN PROGRAMME AND OBJECTIVES

To satisfy the objectives of the curricular unit, the content is designed to train the student as a future professional in the area of cartographic production in a company or public institution.

Accordingly, students acquire concepts in classic cartographic production as well as in cutting edge tools to develop competence in production, including planning, organizing information, knowledge of ISO norms for representing geographic information and how to analyse the information produced from a visual inspection perspective and from the perspective of automatic inspection and correction

4. MAIN BIBLIOGRAPHY

Mandatory

Appointments made by the discipline teacher and continuously updated.

Keats, J. S., "Cartographic Design and Production", 1998;

Autodesk, "AutoCADMap – User's Guide, 3";

	SUBJECT DESCRIPTION	MODELO PED.013.03
---	----------------------------	-----------------------------

Recommended

Robinson, Arthur H., "Elements of Cartography";

Sousa Cruz, J.J. " Manual de Topografia ".

5. TEACHING METHODOLOGIES (INCLUDING EVALUATION)

Oral presentation with resource of audiovisual equipment and the programs applied to the Cartography.

Availability of e-learning contents.

Test theoretic–practical; accomplishment of a practical work with a weight of at least 30%.

Practical works count toward the time of examination and examination resource. As an option the student.

6. COHERENCE BETWEEN TEACHING METHODOLOGIES AND OBJECTIVES

To reach the objectives, the students are taught through theoretical and practical lectures e teacher-student interaction as well as laboratory practice in which the students become familiar with the techniques of cartographic production, carrying out a practical assignment which they plan and organize information using appropriate software until they obtain the final product.

7. ATTENDANCE

There are no rules for attendance

8. CONTACTS AND OFFICE HOURS

Teacher: Eufémia da Glória R.Patrício

email: gpatricio@ipg.pt

Office nº: 78

Office hours. Thursday: 11:30 a.m 13h:30 a.m

Subject area coordinator: Eufémia da Glória Rodrigues Patrício

9. OTHERS

Be careful in the use of computer equipment.

<p>POLI</p> <p>ESCOLA SUPERIOR TECNOLOGIA GESTÃO</p> <p>TÉCNICO GUARDA</p>	<p>SUBJECT DESCRIPTION</p>	<p>MODELO</p> <p>PED.013.03</p>
--	-----------------------------------	--

DATE

28 de setembro de 2023

SIGNATURES

Professor(s), Area/Group Coordinator

Professor

(signature)

Area/Group Coordinator

(signature)