

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

Course	Computer Science					
Subject	SAP Introduction					
Academic year	2023-2024	Curricular year	2nd, 3rd	Study period	2nd semester	
Type of subject	Elective	Student workload (H)	Total: 112	Contact: 45	ECTS	4
Professor(s)	Joana Ramos Quadrado, Paulo Saraiva, Maria Clara Silveira (PhD)					
<input checked="" type="checkbox"/> Area/Group Coordinator <input type="checkbox"/> Head of Department	(select)	José Carlos Fonseca (PhD)				

PLANNED SUBJECT DESCRIPTION

1. LEARNING OBJECTIVES

Upon completion of this course, students should be able to:

1. Learn SAP concepts and terminology.
2. Create data elements, domains, and data dictionary tables.
3. Build views, table dependencies using the concept of foreign keys.
4. Prepare simple reports using appropriate tools, with access to the database.
5. Create basic output reports.

2. PROGRAMME

1. SAP Overview
 - a. Overview of SAP business solutions (ERP, Fiori, Cloud, ...)
 - b. SAP Terminology
 - c. Navigate the SAPGlobal view of SAP business solutions system (ERP, Fiori, Cloud, ...).
2. ABAP Data Dictionary
 - a. Introduction to the concept of a transport system through Transport Organizer
 - b. Frontend installation and configuration
 - c. ABAP Data Dictionary Objectives
 - d. Type definitions
 - e. Building tables and views
 - f. Domains, Data Elements, Search Aids, Blocking Objects
 - g. Performance aspects, index creation
 - h. Defining foreign keys
 - i. Dependency of objects in the ABAP data dictionary
 - j. Construction of direct maintenance screens for access through the SM30 transaction
 - k. Construction of direct maintenance clusters for access via the SM34 transaction

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

- l. Practical exercises.
3. *ABAP Workbench Fundamentals*
 - a. *Create ABAP programs using the appropriate tools*
 - b. *Navigate the Workbench and familiarize yourself with help tools*
 - c. *ABAP editor handling*
 - d. *Using debugger / break points / watchpoints*
 - e. *ABAP Statements Overview*
 - f. *Introduction to the concept of internal table*
 - g. *Introduction to local modularization techniques (subroutines)*
 - h. *Database read access*
 - i. *List concepts, selection screens, variants*
 - j. *Approach to function groups and respective modules*
 - k. *Basic output reports*
 - l. *Practical exercises.*

3. COHERENCE BETWEEN PROGRAMME AND OBJECTIVES

1. *Content 1 is consistent with Objective 1.*
2. *Content 2 is consistent with Objectives 2 and 3, because they focus on the database and support development.*
3. *Content 3 is consistent with Objectives 4 and 5 because they detail the area of system software development, back-end server code development.*

4. MAIN BIBLIOGRAPHY

Mandatory:

1. *Class notes provided by teachers.*
2. *SAP, system learning materials.*
3. *GUI installation for SAP.*

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

5. TEACHING METHODOLOGIES (INCLUDING EVALUATION)

Teaching methodologies:

1. Theoretical classes
2. Practical classes
3. Exercises
4. Problem-solving.

Evaluation methodologies:

Continuous evaluation/Normal season Exam

1. *The student is required to attend at least 1/2 of the classes to be evaluated during the continuous assessment period. Students with worker-student status are not required to attend.*
2. *Practical tests at the end of each chapter:*
 - a) *Demos on dates to be defined (15%)*
 - b) *kahoot Quizzes (5%)*
 - c) *1st practical test (20%): 18-03-2024*
 - d) *2nd practical test (20%): 29-04-2024*
 - e) *Final test (40%): 06-05-2024*

Appeal season Exam/Special season Exam: *Final practical test (100%).*

6. COHERENCE BETWEEN TEACHING METHODOLOGIES AND OBJECTIVES

1. *Lectures are consistent with the objectives due to the need to provide students with the theoretical contents.*
2. *Practical classes are consistent with the objectives due to the need to use SAP tools to apply the theoretical content covered throughout the classes.*
3. *Exercises are consistent with the objectives due to the need to assess knowledge.*
4. *Problem solving is consistent with the objectives as it helps consolidate the concepts, highlighting the student's expertise.*

7. ATTENDANCE

The student is required to attend at least 1/2 of the classes to be evaluated in the continuous evaluation. Students with worker-student status are not required to attend.

8. CONTACTS AND OFFICE HOURS

Contacts: *Maria Clara Silveira, Office 21 | e-mail: mclara@ipg.pt*

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

Joana Ramos Quadrado, email: joana.ramos.quadrado@inetum.com; Paulo Saraiva, e-mail: Paulo.Saraiva@inetum.com.

Office hours: Tuesday from 9 am to 10 am: classroom 45 and Teams.

DATE: 19 de fevereiro de 2024

SIGNATURE