





17.APR-7.JUL.2023

SAP OVERVIEW

This SAP aims to introduce programming to ungraduated students with little or no previous knowledge of a programming language and is oriented to engineering applications. The student should have some prior knowledge of working with a computer, editing files, and downloading and installing software.

We will use the Python programming language (https://www.python.org/), which is an object-oriented, high-level programming language with dynamic semantics. It is open-source and available for all major platforms. Python is being used by a large and supportive community of users.

LEARNING OUTCOMES

At the end of this RUN-EU SAP, you will be able to:

- Develop abstract thinking skills and acquire fundamental concepts associated with programming language.
- Learn the basic steps of developing a programme as a solution to a problem.
- Design and analyse algorithms for problem-solving.
- Understand the principles of structured programming.
- Understand the elementary concepts of Python programming language.
- Analyse and interpret programmes coded in Python programming language.
- Develop programmes using the Python programming language.
- Understand the structure and organisation of structured data and use the most appropriate data structures when solving a problem.
- Develop applications following the fundamentals and best practices of structured programming.

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Organised by: Polytechnic of Leiria TUS

DATE From 17 April to 7 July 2023

Face-to-Face Week: Polytechnic of Leiria, Portugal 3-7 July

MODE OF DELIVERY Blended

LANGUAGE OF INSTRUCTION English

ECTS CREDITS 3

ACADEMIC RECOGNITION

To be defined by each home higher education institution. Generally, most students will have this SAP certified in their diploma supplement, as a minimal condition.

ELIGIBLE PARTICIPANTS

All RUN-EU undergraduate students.

HOW TO APPLY

Fill in the application form (QR or website)



DEADLINE FOR APPLICATIONS

24 March 2023

CONTACT DETAILS

carlos.campos@ipleiria.pt























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17.APR-7.JUL.2023

SELECTION CRITERIA

Students will be selected based on the fulfilment of requirements, CV and information provided in a video and/or in a motivation letter.

A maximum of 5 places will be reserved for each of the two host institutions (IPL/ESTG and TUS) and a maximum of 3 places will be reserved for each of the five RUN-EU partners.

The total number of students to be selected is 25. Selection will always be based on requirements and submitted applications concerning motivation.

The selection team will also take steps toward ensuring diversity and representativity.

LEARNING AND TEACHING STRATEGY

Active learning, learner-centred teaching, collaborative methods.

Live sessions (whole class/group work), independent (group/individual) work + mentor support, site visits in Portugal.

Platform: Teams

COURSES LEADERS | LECTURERS

Ana Lemos (Polytechnic of Leiria) Carlos Campos (Polytechnic of Leiria) Paulo Madeira (Polytechnic of Leiria) Sajjad Sajjadi (TUS)

PHYSICAL MOBILITY | SCHOLARSHIPS AVAILABLE

The selected students will receive travel grants based on the travel distance and the subsistence costs in the country the SAP is offered in.

Travel

IPCA - Polytechnic of Leiria: €40

Austria - Portugal: €330 Finland - Portugal: €470 Hungary - Portugal: €380 Ireland - Portugal: €270

The Netherlands - Portugal: €330

Subsistence

The subsistence grant for Portugal is €460

MEANS AND CRITERIA FOR ASSESSMENT

Individual participation (attendance): 20% Group project: 80% (20% Interim Presentation + 60% Final presentation). Active participation from all students of each group is mandatory in both group presentations. Self-assessment, teacher assessment based on project outcomes.

CERTIFICATION

The participants who successfully complete this RUN-EU SAP will receive a Certificate of Participation and a Transcript of Records jointly issued by the organising institutions.























PROGRAMME AT A GLANCE

WEEK 1 • 17-21.APRIL.2023 • ONLINE

GMT+2	11h00	12h	100	13h	00	14h00		15h00		16h00		17h00		20h00		21h00	2	22h00	:	23h00
GMT+1	10h00	11h	100	12h	00	13h00		14h00		15h00		16h00		19h00		20h00	2	21h00		22h00
GMT	9h00	10h	100	11h(00	12h00	ı	13h00	ı	14h00	ı	15h00	ı	18h00	ı	19h00	2	20h00	ı	21h00
MONDAY 17/4														OP	WELCON ENING S	ME & ESSION	SAP	PRESEN	NTATION	N
TUESDAY 18/4																LE	CTURE			
WEDNESDAY 19/4																LE	CTURE			
THURSDAY 20/4																TEA	M WORK	(
FRIDAY 21/4																LE	CTURE			























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ENGINEERING APPLICATIONS IN PYTHON



PROGRAMME AT A GLANCE

WEEK 2 • 26-27.APRIL.2023 • ONLINE

13h00 14h00 17h00 22h00 GMT+2 11h00 12h00 15h00 16h00 20h00 21h00 23h00 GMT+1 11h00 12h00 13h00 14h00 15h00 16h00 19h00 20h00 21h00 22h00 10h00 **GMT** 10h00 11h00 12h00 13h00 14h00 15h00 18h00 19h00 20h00 21h00 9h00 **WEDNESDAY TEAM WORK** 26/4 **FRIDAY TEAM WORK** 27/4

WEEK 3 • 2-5.MAY.2023 • ONLINE

GMT+2	11h00	12h00	13h00	14h00	15h00	16h00	17h00	20h00	21h00	22h00	23h00
GMT+1	10h00	11h00	12h00	13h00	14h00	15h00	16h00	19h00	20h00	21h00	22h00
GMT	9h00	10h00	11h00	12h00	13h00	14h00	15h00	18h00	19h00	20h00	21h00
TUESDAY 2/5									LECT	URE	
THURSDAY 4/5									TEAM V	VORK	
FRIDAY 5/5									TEAM V	VORK	























PROGRAMME AT A GLANCE

WEEK 4 • 9-12.MAY.2023 • ONLINE

GMT+2	11h00		12h00		13h00		14h00		15h00		16h00		17h00		20h00		21h00		22h00		23h00
GMT+1	10h00		11h00		12h00		13h00		14h00		15h00		16h00		19h00		20h00		21h00		22h00
GMT	9h00	ı	10h00	ı	11h00	ı	12h00	ı	13h00	ı	14h00	ı	15h00	1	18h00	ı	19h00	ı	20h00	1	21h00
TUESDAY 9/5																	L	ECTUI	RE		
WEDNESDAY 10/5																	TE	AMWC	DRK		
THURSDAY 11/5																	U	ECTUI	RE		
FRIDAY 12/5																	TE	AMWC	DRK		





















PROGRAMME AT A GLANCE

WEEK 5 • 16-18.MAY.2023 • ONLINE

GMT+2	11h00		12h00		13h00		14h00		15h00		16h00		17h00		20h00		21h00		22h00		23h00
GMT+1	10h00		11h00		12h00		13h00		14h00		15h00		16h00		19h00		20h00		21h00		22h00
GMT	9h00	ı	10h00	ı	11h00	ı	12h00	ı	13h00	ı	14h00	ı	15h00	ı	18h00	ı	19h00	ı	20h00	ı	21h00
TUESDAY 16/5																	L	ECTUI	RE		
WEDNESDAY 17/5																	TE	AMWC	ORK		
THURSDAY 18/5																	TE	AMWC	DRK		

























PROGRAMME AT A GLANCE

WEEK 6 - 23-25.MAY.2023 - ONLINE

GMT+2 GMT+1	11h00 10h00		12h00 11h00		13h00 12h00		14h00 13h00		15h00 14h00		16h00 15h00		17h00		20h00 19h00		21h00 20h00		22h00 21h00		23h00
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TUESDAY 23/5																	TE	AMW	ORK		
WEDNESDAY 24/5																	TE	AMWO	ORK		
THURSDAY 25/5																	CLOS	ING SE	ESSION		

























PROGRAMME AT A GLANCE

WEEK 7 - 3-7.JULY.2023 - FACE-TO-FACE WEEK - LEIRIA

GMT+2	11h00	12h00	13h	100	114h00		15h00		16h00		17h0	0	18h00		19h00		20h00		21h00
GMT+1	10h00	11h00	12 h	100	13h00		14h00		15h00		16h0	0	17h00		18h00		19h00		20h00
LOCAL TIME	9h00	10h00	11h	00	12h00	ı	13h00	ı	14h00	ı	15h0	0	16h00	ı	17h00	ı	18h00	ı	19h00
MONDAY 3/7		OPENING SESSION PRES	ENTATION		G WORKING NING COAG		JPS		LUNCH BREAK						ELOPMENT RAMMING				
TUESDAY 4/7			PROJECT PYTHON						LUNCH BREAK						ELOPMENT RAMMING				
WEDNESDAY 5/7			ENTER	RPRISE VI	SITS				LUNCH BREAK				CULT	URAL	VISITS				
THURSDAY 6/7			PROJECT PYTHON						LUNCH BREAK			PF	REPARATIO	N OF F	PRESENTA	TION			
FRIDAY 7/7			PROJECT	PRESENT	FATION				LUNCH BREAK				P LEARNING	G	OVERAL ASSES	L QUAL SSMEN			

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1	7 AP	R	L				MC	N	DA	Y	18h(C)-21h	า0	0 G	M	T - (۱C	JLIN	ΙE	
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GMT+1	10h00		11h00		12h00		13h00		14h00		15h00		16h00		19h00		20h00		21h00		22h00
GMT	9h00	ı	10h00	ı	11h00	ı	12h00	ı	13h00		14h00	ı	15h00	ı	18h00	ı	19h00		20h00		21h00
MONDAY 17/4															OF		COME & G SESSION		AP PRESEI	NTATI	ON

Welcome & Opening Session SAP Presentation

- (h) 18h00-21h00
- Group Work
- Ana Lemos (Polytechnic of Leiria) Carlos Campos (Polytechnic of Leiria) Paulo Madeira (Polytechnic of Leiria) Sajjad Sajjadi (TUS)
- In this welcome and opening session, the participants will do their individual presentations. Afterwards, professors will present the objectives, programme and schedule of the course.























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18-	19 AP	RIL			18hC	0-21h	100 G	MT • C	NLIN	IE	
GMT+2	11h00	12h00	13h00	14h00	15h00	16h00	17h00	20h00	21h00	22h00	23h00
GMT+1	10h00	11h00	12h00	13h00	14h00	15h00	16h00	19h00	20h00	21h00	22h00
GMT	9h00	10h00	11h00	12h00	13h00	14h00	15h00	18h00	19h00	20h00	21h00
TUESDAY 18/4									LE	CTURE	

Anaconda Framework

(h) 18h00-21h00

WEEK 1

- Lecture
- Carlos Campos (Polytechnic of Leiria) + Sajjad Sajjadi (TUS)
- (online and local platforms). Afterwards we will install the Python framework provided by Anaconda and we will explore each one of the applications provided by this Anaconda framework, namely, Anaconda Prompt, Anaconda Navigator, Jupyter Notebook and Spyder. During this exploration phase we will present how to update the installed applications and how to install Python modules in the framework.

This lecture starts with a general overview about Python programming language and some Python frameworks

WEDNESDAY								LECTURE
19/4								LECTURE

Python Data Types

- 18h00-21h00
- Lecture
- Ana Lemos (Polytechnic of Leiria) + Sajjad Sajjadi (TUS)
- The lecture is devoted to present and explore some basic data types in Python, namely, integer numbers, float numbers and strings. For each data type the most common methods and operations in Python are presented. During the lecture examples and exercises are given and discussed.























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20	-21 A	PRIL	_		18h	00-21	h00	GI	MT - (ONI	LIN	JE			
GMT+2	11h00	12h00	13h00	14h00	15h00	16h00	17	h00	20h00	2	21h00		22h00		23h00
GMT+1	10h00	11h00	12h00	13h00	14h00	15h00	16	h00	19h00	2	0h00		21h00		22h00
GMT	9h00	10h00	11h00	12h00	13h00	14h00	15	h00	18h00	1	19h00	1	20h00	1	21h00
THURSDAY 20/4											TEA	M WO	RK		

Examples and Exercises

(h) 18h00-21h00

WEEK 1

- Team Work
- Sajjad Sajjadi (TUS) + Carlos Campos (Polytechnic of Leiria)
- The lecture is dedicated to practical work with examples and exercises using data types in Python. Some engineering applications will be presented.

FRIDAY 21/4					LECTURE

Python Lists and Python Control Structures

- 18h00-21h00
- Lecture
- Carlos Campos (Polytechnic of Leiria) + Paulo Madeira (Polytechnic of Leiria)
- The lecture is divided in two parts. The first part aims to present, and study lists in Python. The most common methods and operations on lists will be presented. In the second part, control structures in Python, namely, 'if' structures, 'for' and 'while' structures are presented with examples and their applications.





















WEEK 2 +INFO: www.run-eu.eu

26	-27 A	P	RIL						18h	00)-21h	า0	0 G	M	T • (1C	ILIN	۱E			
GMT+2	11h00		12h00		13h00		14h00		15h00		16h00		17h00		20h00		21h00		22h00		23h00
GMT+1	10h00		11h00		12h00		13h00		14h00		15h00		16h00		19h00		20h00		21h00		22h00
GMT	9h00	ı	10h00	ı	11h00	ı	12h00	ı	13h00	ı	14h00	ı	15h00	ı	18h00	ı	19h00	ı	20h00	ı	21h00
WEDNESDAY 26/4																	TE/	AM W	ORK		

Examples and Exercises

- (h) 18h00-21h00
- Team Work
- Sajjad Sajjadi (TUS) + Carlos Campos (Polytechnic of Leiria)
- In this lecture we will do practical work with examples and exercises using lists in Python. Some engineering applications will be studied.

THURSDAY 27/4								TEAM WORK

- 18h00-21h00
- Team Work
- Ana Lemos (Polytechnic of Leiria) + Sajjad Sajjadi (TUS)
- In this session we will do some practical work with examples and exercises using control structures in Python. Some engineering applications will be studied.























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2	-5 M <i>A</i>	Y			18h(00-21	า00 G	MT -	ONLIN	IE	
GMT+2	11h00	12h00	13h00	14h00	15h00	16h00	17h00	20h00	21h00	22h00	23h00
GMT+1	10h00	11h00	12h00	13h00	14h00	15h00	16h00	19h00	20h00	21h00	22h00
GMT	9h00	10h00	11h00	12h00	13h00	14h00	15h00	18h00	19h00	20h00	21h00
TUESDAY 2/5									L	ECTURE	

Python Tuples and Python Functions and Modules

(h) 18h00-21h00

WEEK 3

- Lecture
- Carlos Campos (Polytechnic of Leiria) + Paulo Madeira (Polytechnic of Leiria)
- The most common methods and operations using tuples will be presented. The second part is dedicated to the study of functions and modules in Python.



Examples and Exercises

- 18h00-21h00
- Team Work
- Ana Lemos (Polytechnic of Leiria) + Sajjad Sajjadi (TUS)
- In this session we will do some practical work with examples and exercises using functions and modules in Python.

Some engineering applications will be studied.

Examples and Exercises

- 18h00-21h00
- Team Work
- Sajjad Sajjadi (TUS) + Carlos Campos (Polytechnic of Leiria)
- In this session we will do some practical work with examples and exercises using functions and modules in Python.

Some engineering applications will be studied.























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9	-10 M	AY			18h(00-21h	า00 G	MT - (ONLIN	JE	
GMT+2	11h00	12h00	13h00	14h00	15h00	16h00	17h00	20h00	21h00	22h00	23h00
GMT+1	10h00	11h00	12h00	13h00	14h00	15h00	16h00	19h00	20h00	21h00	22h00
GMT	9h00	10h00	11h00	12h00	13h00	14h00	15h00	18h00	19h00	20h00	21h00
TUESDAY 9/5									L	ECTURE	

Python Dictionaries and Python Specific Modules

(h) 18h00-21h00

WEEK 4

- Lecture
- Carlos Campos (Polytechnic of Leiria) + Paulo Madeira (Polytechnic of Leiria)
- The first part of the lecture is dedicated to present and explore dictionaries in Python. The most common methods and operations with dictionaries are presented. In the second part of the lecture some specific Python modules are studied, namely, the modules math, random, matplotlib, numpy and scipy.

WEDNESDAY 10/5				TEAM WORK
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- 18h00-21h00
- Team Work
- Ana Lemos (Polytechnic of Leiria) + Sajjad Sajjadi (TUS)
- In this session we will do some practical work with examples and exercises using functions and modules in Python. Some engineering applications will be studied.

























WEEK 4 +INFO: www.run-eu.eu

11-	-12 M	4Y			18h(00-21	h00 G	aMT •	ONLIN	IE	
GMT+2	11h00	12h00	13h00	14h00	15h00	16h00	17h00	20h00	21h00	22h00	23h00
GMT+1	10h00	11h00	12h00	13h00	14h00	15h00	16h00	19h00	20h00	21h00	22h00
GMT	9h00	10h00	11h00	12h00	13h00	14h00	15h00	18h00	19h00	20h00	21h00
THURSDAY 11/5									L	ECTURE	

Text and CSV Files in Python

- (h) 18h00-21h00
- Carlos Campos (Polytechnic of Leiria) + Paulo Madeira (Polytechnic of Leiria)
- The aim of this lecture is to present and explore text and comma-separated values (CSV) files in Python. Some examples and exercises will be given and solved.



- 18h00-21h00
- Team Work
- Sajjad Sajjadi (TUS) + Carlos Campos (Polytechnic of Leiria)
- This session is dedicated to practical work with examples and exercises about text and CSV files in Python. Some engineering applications will be studied.























WEEK 5 +INFO: www.run-eu.eu

16	-17 N	ΛA	ΥY						18h	00)-21h	า0	0 G	M	T • (10	ILIN	ΙE			
GMT+2	11h00		12h00		13h00		14h00		15h00		16h00		17h00		20h00		21h00		22h00		23h00
GMT+1	10h00		11h00		12h00		13h00		14h00		15h00		16h00		19h00		20h00		21h00		22h00
GMT	9h00	ı	10h00	ı	11h00	ı	12h00	ı	13h00	ı	14h00	ı	15h00	ı	18h00	ı	19h00	ı	20h00	ı	21h00
TUESDAY 16/5																	LI	ECTUI	RE		

Graphics in Python

- (h) 18h00-21h00
- Carlos Campos (Polytechnic of Leiria) + Paulo Madeira (Polytechnic of Leiria)
- This lecture aims to present and explore graphics in Python. Different type of graphics will be presented and studied. Examples and exercises are given.

WEDNESDAY 17/5				TEAM WORK
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- 18h00-21h00
- Team Work
- Ana Lemos (Polytechnic of Leiria) + Sajjad Sajjadi (TUS)
- This session is dedicated to practical work with examples and exercises using graphics in Python. Some engineering applications are studied.

























WEEK 5 +INFO: www.run-eu.eu

	18 M	/					18h	00)-211	า0	0 G	M	T - (10	ILIN	JE					
GMT+2	11h00		12h00		13h00		14h00		15h00		16h00		17h00		20h00		21h00		22h00		23h00
GMT+1	10h00		11h00		12h00		13h00		14h00		15h00		16h00		19h00		20h00		21h00		22h00
GMT	9h00	ı	10h00	ı	11h00	ı	12h00	ı	13h00	ı	14h00	ı	15h00	ı	18h00	1	19h00	ı	20h00	ı	21h00
THURSDAY 18/5																	TE	AM Wo	ORK		

- (h) 18h00-21h00
- Team Work
- Sajjad Sajjadi (TUS) + Carlos Campos (Polytechnic of Leiria)
- This session is devoted to practical work with examples and exercises using all the topics covered in the previous lectures.
 - During this session some engineering applications are studied and a programming project will be started.























WEEK 6 +INFO: www.run-eu.eu

23	-24 N	IAY			18h(00-21h	100 G	MT - (ONLIN	JE	
GMT+2	11h00	12h00	13h00	14h00	15h00	16h00	17h00	20h00	21h00	22h00	23h00
GMT+1	10h00	11h00	12h00	13h00	14h00	15h00	16h00	19h00	20h00	21h00	22h00
GMT	9h00	10h00	11h00	12h00	13h00	14h00	15h00	18h00	19h00	20h00	21h00
TUESDAY 23/5									TE <i>l</i>	AM WORK	

Examples and Exercises

- (h) 18h00-21h00
- Team Work
- Sajjad Sajjadi (TUS) + Carlos Campos (Polytechnic of Leiria)
- This session is dedicated to do practical work with examples and exercises using all the topics studied in previous lectures.
 - During the lecture we shall continue to work on the programming project.

WEDNESDAY TEAM WORK 24/5

- 18h00-21h00
- Team Work
- Carlos Campos (Polytechnic of Leiria) + Sajjad Sajjadi (TUS)
- This session is dedicated to do practical work, with examples and exercises using all the topics covered in previous lectures/sessions. During this session we will finish the programming project.























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	25 MA	Y			18h	00-21	h00 (GMT	- (ONLIN	JE			
GMT+2	11h00	12h00	13h00	14h00	15h00	16h00	17h0	0 2	0h00	21h00		22h00		23h00
GMT+1	10h00	11h00	12h00	13h00	14h00	15h00	16h0	0	9h00	20h00		21h00		22h00
GMT	9h00	10h00	11h00	12h00	13h00	14h00	15h0	0	8h00	19h00	ı	20h00	1	21h00
THURSDAY 18/5										CLOSI	NG SES	SION		

Closing Session

(h) 18h00-21h00

WEEK 6

- Group Work
- Ana Lemos (Polytechnic of Leiria) Carlos Campos (Polytechnic of Leiria) Paulo Madeira (Polytechnic of Leiria) Sajjad Sajjadi (TUS)
- In this closing session the participants will do their evaluation about the SAP lectures, contents and will indicate the positive/negative aspects of this SAP.
 - Afterwards the professors will do the presentation about the upcoming 'Face-to-Face' week, from 3-7 July, at the Polytechnic of Leiria.























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3 JULY MONDAY 9h30-18h00 - LEIRIA GMT+2 11h00 12h00 13h00 114h00 15h00 17h00 18h00 19h00 20h00 21h00 16h00 GMT+1 10h00 11h00 12h00 13h00 14h00 15h00 16h00 17h00 18h00 19h00 20h00 **LOCAL TIME** 9h00 10h00 11h00 12h00 13h00 14h00 15h00 16h00 17h00 18h00 19h00 **OPENING MONDAY** LUNCH **DEFINING WORKING GROUPS PYTHON PROGRAMMING DEFINING COACHING BREAK** 3/7 PRESENTATION

Opening Session Presentation

9h30-11h00

WEEK 7

- Team Building
- All lecturers

Defining Working Groups Defining Coaching

- 11h00-13h00
- Team Building
- Ana Lemos (Polytechnic of Leiria) Carlos Campos (Polytechnic of Leiria) Paulo Madeira (Polytechnic of Leiria) Sajjad Sajjadi (TUS)
- Teaming, individual presentation, aims for the SAP and instructions for group work. Select the topics of the group projects and planning activities.

Project Development Python Programming

- 15h00-18h00
- Team Work, Coaching
- Ana Lemos (Polytechnic of Leiria) Carlos Campos (Polytechnic of Leiria) Paulo Madeira (Polytechnic of Leiria) Sajjad Sajjadi (TUS)
- Project development and Python programming with coaching support.























WEEK 7 +INFO: www.run-eu.eu

	4 JU	L						Τl	JES	SC	PAY	9ł	130	-18	3h0) -	LE	RI	Α		
GMT+2	11h00		12h00		13h00		114h00		15h00		16h00		17h00		18h00		19h00		20h00		21h00
GMT+1	10h00		11h00		12h00		13h00		14h00		15h00		16h00		17h00		18h00		19h00		20h00
LOCAL TIME	9h00	ı	10h00	ı	11h00	ı	12h00	ı	13h00	ı	14h00	ı	15h00	ı	16h00	ı	17h00	ı	18h00	ı	19h00
TUESDAY 4/7					DJECT DEV THON PRO						LUNCH BREAK						LOPMENT RAMMING				

Project Development Python Programming

- 9h30-13h00
- Team Work, Coaching
- Ana Lemos (Polytechnic of Leiria) Carlos Campos (Polytechnic of Leiria) Paulo Madeira (Polytechnic of Leiria) Sajjad Sajjadi (TUS)
- Project development and Python programming with coaching support.

Project Development Python Programming

- (h) 15h00-18h00
- Team Work, Coaching
- Ana Lemos (Polytechnic of Leiria) Carlos Campos (Polytechnic of Leiria) Paulo Madeira (Polytechnic of Leiria) Sajjad Sajjadi (TUS)
- Project development and Python programming with coaching support.























WEEK 7 +INFO: www.run-eu.eu

	5 JUĽ	Y		V	/ED	NE	SDA	Y	9h3	30 ⁻	-18h	100) - L	ΕI	RIA		
GMT+2	11h00	12h00	13h00	114h00	15	h00	16h00		17h00		18h00		19h00		20h00		21h00
GMT+1	10h00	11h00	12h00	13h00	14	h00	15h00		16h00		17h00		18h00		19h00		20h00
LOCALTIME	9h00	10h00	11h00	12h00	13	h00	14h00	ı	15h00	ı	16h00	ı	17h00	ı	18h00	ı	19h00
WEDNESDAY 5/7			ENTERPRI	SE VISITS			LUNCH BREAK				CULT	URAL	VISITS				

Enterprise Visits

- 9h30-13h00
- Group Work
- Ana Lemos (Polytechnic of Leiria) Carlos Campos (Polytechnic of Leiria) Paulo Madeira (Polytechnic of Leiria) Sajjad Sajjadi (TUS)

Cultural Visits

- (h) 15h00-18h00
- Group Work
- Ana Lemos (Polytechnic of Leiria) Carlos Campos (Polytechnic of Leiria) Paulo Madeira (Polytechnic of Leiria) Sajjad Sajjadi (TUS)
- Guided tour of the city and historical monuments.





















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	THURSDAY 9h30-18h00 - LEIRIA																				
GMT+2	11h00	1	12h00		13h00		114h00		15h00		16h00		17h00		18h00		19h00		20h00		21h00
GMT+1	10h00	1	l1h00		12h00		13h00		14h00		15h00		16h00		17h00		18h00		19h00		20h00
LOCALTIME	9h00	1	10h00	ı	11h00	ı	12h00	ı	13h00	ı	14h00	ı	15h00	ı	16h00	ı	17h00	ı	18h00	ı	19h00
THURSDAY 6/7					JECT DEV HON PRO						LUNCH BREAK			PREPARATION OF PRESENTATION							

Project Development Python Programming

9h30-13h00

WEEK 7

- Team Work, Coaching
- Ana Lemos (Polytechnic of Leiria) Carlos Campos (Polytechnic of Leiria) Paulo Madeira (Polytechnic of Leiria) Sajjad Sajjadi (TUS)
- Project development and Python programming with coaching support.

Preparation of Presentation

- (h) 15h00-18h00
- E Team Work, Coaching
- Ana Lemos (Polytechnic of Leiria) Carlos Campos (Polytechnic of Leiria) Paulo Madeira (Polytechnic of Leiria) Sajjad Sajjadi (TUS)























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	7 JU	FRIDAY 9h30-18h00 - LEIRIA																		
GMT+2	11h00	12h0)	13h00		114h00		15h00		16h00		17h00		18h00		19h00		20h00		21h00
GMT+1	10h00	11h00		12h00		13h00		14h00		15h00		16h00		17h00		18h00		19h00		20h00
LOCAL TIME	9h00	10h0		11h00	ı	12h00	ı	13h00	•	14h00	ı	15h00	ı	16h00	ı	17h00	ı	18h00	1	19h00
FRIDAY 7/7			P	ROJECT PRE	SENT	ATION				LUNCH BREAK		GROUP LEARNING REFLECTION				OVERALI ASSES				

Project Presentation

- 9h30-13h00
- Team Work
- Ana Lemos (Polytechnic of Leiria) Carlos Campos (Polytechnic of Leiria) Paulo Madeira (Polytechnic of Leiria) Sajjad Sajjadi (TUS)
- Presentations of group work will be made by participants in this session.

Group Learning Reflection Overall Quality Assessment

- (h) 15h00-18h00
- Team Work, Coaching
- Ana Lemos (Polytechnic of Leiria) Carlos Campos (Polytechnic of Leiria) Paulo Madeira (Polytechnic of Leiria) Sajjad Sajjadi (TUS)
 - Group Learning Reflection (all)
 - Individual Learning Reflection Report
 - + Mobility Assessment (students)
 - SAP Self-reflection Report (SAP coordinators)
 - LearnWell















