

## ENGINEERING APPLICATIONS IN PYTHON 3<sup>RD</sup> EDITION

**17.MAY-28.JUN.2024**

### SAP OVERVIEW

This SAP aims to give an initial introduction to students with some knowledge of a programming language and is oriented to engineering applications.

The Python programming language 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.

Since Python supports modules and packages, program modularity and code reuse are encouraged. Many Python modules and packages have been made available by contributors, expanding Python capabilities and applications.

### 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 program 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 programs coded in Python programming language.
- Develop programs using Python.
- Understand the structure and organisation of data and to use the most appropriate data when solving a problem.

**+INFO:** [www.run-eu.eu](http://www.run-eu.eu)

Organised by: TUS, IPLeiria, IPCA

**DATE** From **17 May to 28 June 2024**

Face-to-Face Weeks: TUS, Limerick, Ireland 24-28 June

**MODE OF DELIVERY** Blended

**LANGUAGE OF INSTRUCTION** English

**ECTS CREDITS** 3

### ACADEMIC RECOGNITION

To be defined by each home institution  
In general terms, most students will have this RUN-EU 2.0 SAP certified in the Diploma Supplement, as a minimal condition.

### ELIGIBLE PARTICIPANTS

All RUN-EU 2.0 Undergraduate and Postgraduate Students

### HOW TO APPLY

Fill in the application form ([QR](#) or [website](#))



### DEADLINE FOR APPLICATIONS

**5 May 2024**

### CONTACT DETAILS

Carlos Campos (IPLeiria)  
[carlos.campos@ipleiria.pt](mailto:carlos.campos@ipleiria.pt)

Sajjad Sajjadi (TUS)  
[sajjad.sajjadi@tus.ie](mailto:sajjad.sajjadi@tus.ie)

# SHORT ADVANCED PROGRAMME

## ENGINEERING APPLICATIONS IN PYTHON 3<sup>RD</sup> EDITION

17.MAY-28.JUN.2024

### SELECTION CRITERIA

Background, motivation, wide representation of subject areas/fields and balanced participation of RUN-EU 2.0 member institutions. Maximum 35 participants.

The selection team will also take steps towards ensuring a diverse and representative group of students.

### LEARNING AND TEACHING STRATEGY

Active learning, learner-centred teaching, collaborative methods

Activities: problem solving tasks; discussions; project work; role play; presentations; peer teaching/learning

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

### PREREQUISITES

No specific prerequisites

### COURSES LEADERS | LECTURERS

#### Courses leaders

Sajjad Sajjadi (TUS)  
Ana Lemos (IPLeiria)  
Carlos Campos (IPLeiria)  
Paulo Madeira (IPLeiria)  
Teresa Abreu (IPCA)

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### 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. (To be managed by Home Institution)

#### Travel

Athlone/Thurles - Limerick: €36  
Austria - Ireland: €270  
Finland - Ireland: €380  
Hungary - Ireland: €330  
Portugal - Ireland: €270  
The Netherlands - Ireland: €260  
Spain - Ireland: €260  
Belgium - Ireland: €220

#### Subsistence

The subsistence grant for Ireland is €900, except for students who already come from TUS Limerick.

### MEANS AND CRITERIA FOR ASSESSMENT

Active participation  
Learner portfolio  
Final presentation  
Reflection

### CERTIFICATION

The participants who successfully complete this RUN-EU 2.0 SAP, will receive a Certificate of Participation and a Transcript of Records jointly issued by the organising institutions.

# SHORT ADVANCED PROGRAMME

# ENGINEERING APPLICATIONS IN PYTHON 3<sup>RD</sup> EDITION

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## PROGRAMME AT A GLANCE

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GMT+2	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00	19h00	20h00	21h00
GMT+1	10h00	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00	19h00	20h00
GMT	9h00	10h00	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00	19h00
<b>FRIDAY 17/5</b>										<b>WELCOME &amp; OPENING</b>	
<b>MONDAY 20/5</b>										<b>LECTURE</b>	
<b>TUESDAY 21/5</b>										<b>LECTURE</b>	
<b>WEDNESDAY 22/5</b>										<b>TEAM WORK</b>	
<b>THURSDAY 23/5</b>										<b>LECTURE</b>	
<b>FRIDAY 24/5</b>										<b>TEAM WORK</b>	
<b>MONDAY 27/5</b>										<b>LECTURE</b>	
<b>TUESDAY 28/5</b>										<b>TEAM WORK</b>	

# SHORT ADVANCED PROGRAMME



# ENGINEERING APPLICATIONS IN PYTHON 3<sup>RD</sup> EDITION

17.MAY-28.JUNE.2024

## PROGRAMME AT A GLANCE

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GMT+1	10h00	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00	19h00	20h00
GMT	9h00	10h00	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00	19h00
<b>WEDNESDAY 29/5</b>											<b>LECTURE</b>
<b>FRIDAY 31/5</b>											<b>TEAM WORK</b>
<b>MONDAY 3/6</b>											<b>LECTURE</b>
<b>TUESDAY 4/6</b>											<b>LECTURE</b>
<b>WEDNESDAY 5/6</b>											<b>LECTURE</b>
<b>THURSDAY 6/6</b>											<b>LECTURE</b>
<b>MONDAY 10/6</b>											<b>TEAM WORK</b>
<b>TUESDAY 11/6</b>											<b>TEAM WORK</b>



Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the European Education and Culture Executive Agency (EACEA). Neither the European Union nor EACEA can be held responsible for them. Grant Agreement Number: 101124674.

# SHORT ADVANCED PROGRAMME

# ENGINEERING APPLICATIONS IN PYTHON 3<sup>RD</sup> EDITION

17.MAY-28.JUNE.2024

## PROGRAMME AT A GLANCE

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	GMT+2	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00	19h00	20h00	21h00
	GMT+1	10h00	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00	19h00	20h00
	GMT	9h00	10h00	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00	19h00
<b>TUESDAY</b> 12/6												CLOSING SESSION
<b>MONDAY</b> 24/6		WELCOME & OPENING	TEAM BUILDING		LUNCH BREAK			TEAM WORK: COACHING				
<b>TUESDAY</b> 25/6				TEAM WORK: COACHING		LUNCH BREAK		TEAM WORK: COACHING				
<b>WEDNESDAY</b> 26/6				CULTURAL ACTIVITY		LUNCH BREAK		CULTURAL ACTIVITY				
<b>THURSDAY</b> 27/6				TEAM WORK: COACHING		LUNCH BREAK		TEAM WORK: COACHING	PROJECT PRESENTATIONS			
<b>FRIDAY</b> 28/6				PROJECT PRESENTATIONS	QUALITY ASSESSMENT							

## ENGINEERING APPLICATIONS IN PYTHON 3<sup>RD</sup> EDITION

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### 17 MAY

### FRIDAY 16H00-18H00 GMT - ONLINE

GMT+2	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00	19h00	20h00	21h00
GMT+1	10h00	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00	19h00	20h00
GMT	9h00	10h00	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00	19h00
FRIDAY 17/5										WELCOME & OPENING	

### Welcome & Opening

- 🕒 16h00-18h00
- 👥 Group Work
- 👤 Sajjad Sajjadi (TUS), Ana Lemos (IPLeiria), Carlos Campos (IPLeiria), Paulo Madeira (IPLeiria), Teresa Abreu (IPCA)

📄 In this welcome and opening session the participants will do their individual presentation. Afterwards professors will present the objectives, program, and schedule of the course.

### 20 MAY

### MONDAY 16H00-19H00 GMT - ONLINE

GMT+2	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00	19h00	20h00	21h00
GMT+1	10h00	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00	19h00	20h00
GMT	9h00	10h00	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00	19h00
MONDAY 20/5											LECTURE

### Anaconda Framework & Data Types in Python

- 🕒 16h00-19h00
- 👤 Individual Work
- 👤 Live Lecture
- 👤 Sajjad Sajjadi (TUS), Ana Lemos (IPLeiria), Carlos Campos (IPLeiria), Paulo Madeira (IPLeiria), Teresa Abreu (IPCA)

## ENGINEERING APPLICATIONS IN PYTHON 3<sup>RD</sup> EDITION

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### 21 MAY

### TUESDAY 16H00-19H00 GMT - ONLINE

GMT+2	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00	19h00	20h00	21h00
GMT+1	10h00	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00	19h00	20h00
GMT	9h00	10h00	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00	19h00
<b>TUESDAY 21/5</b>										<b>LECTURE</b>	

### Python Data Types

🕒 16h00-19h00

👤 Individual Work

👤 Ana Lemos (IPLeiria), Carlos Campos (IPLeiria), Paulo Madeira (IPLeiria), Sajjad Sajjadi (TUS), Teresa Abreu (IPCA)

📖 The lecture concludes the exploration of the basic data types in python. Once again, for each data type the most common methods and operations in python are presented. During the lecture examples and exercises are given and discussed.

### 22 MAY

### WEDNESDAY 16H00-19H00 GMT - ONLINE

GMT+2	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00	19h00	20h00	21h00
GMT+1	10h00	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00	19h00	20h00
GMT	9h00	10h00	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00	19h00
<b>WEDNESDAY 22/5</b>										<b>TEAM WORK</b>	

### Examples & Exercises

🕒 16h00-19h00

👤 Group Work

👤 Live Session

👤 Teresa Abreu (IPCA), Sajjad Sajjadi (TUS), Ana Lemos (IPLeiria), Carlos Campos (IPLeiria), Paulo Madeira (IPLeiria)

## ENGINEERING APPLICATIONS IN PYTHON 3<sup>RD</sup> EDITION

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23 MAY

THURSDAY 16H00-19H00 GMT - ONLINE

GMT+2	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00	19h00	20h00	21h00
GMT+1	10h00	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00	19h00	20h00
GMT	9h00	10h00	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00	19h00
THURSDAY 23/5											LECTURE

### Python Lists & Python Control Structures

🕒 16h00-19h00

👤 Individual Work

👤 Sajjad Sajjadi (TUS), Ana Lemos (IPLeiria), Carlos Campos (IPLeiria), Paulo Madeira (IPLeiria), Teresa Abreu (IPCA)

📄 The lecture is divided in two parts. The aim of the first part is 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.

24 MAY

FRIDAY 16H00-19H00 GMT - ONLINE

GMT+2	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00	19h00	20h00	21h00
GMT+1	10h00	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00	19h00	20h00
GMT	9h00	10h00	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00	19h00
FRIDAY 24/5											TEAM WORK

### Examples & Exercises

🕒 16h00-19h00

👤 Group Work

👤 Live Session

👤 Teresa Abreu (IPCA), Sajjad Sajjadi (TUS), Ana Lemos (IPLeiria), Carlos Campos (IPLeiria), Paulo Madeira (IPLeiria)

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**27 MAY**

**MONDAY 16H00-19H00 GMT - ONLINE**

GMT+2	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00	19h00	20h00	21h00
GMT+1	10h00	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00	19h00	20h00
GMT	9h00	10h00	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00	19h00
<b>MONDAY 27/5</b>										<b>LECTURE</b>	

### Python Tuples & Python Functions & Modules

🕒 16h00-19h00

👤 Individual Work

👥 Sajjad Sajjadi (TUS), Ana Lemos (IPLeiria), Carlos Campos (IPLeiria), Paulo Madeira (IPLeiria), Teresa Abreu (IPCA)

📄 This lecture has two parts. The first part is dedicated to present and explore tuples in python. 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.

**28 MAY**

**TUESDAY 16H00-19H00 GMT - ONLINE**

GMT+2	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00	19h00	20h00	21h00
GMT+1	10h00	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00	19h00	20h00
GMT	9h00	10h00	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00	19h00
<b>TUESDAY 28/5</b>										<b>TEAM WORK</b>	

### Examples & Exercises

🕒 16h00-19h00

👤 Group Work

👤 Live Session

👥 Ana Lemos (IPLeiria), Carlos Campos (IPLeiria), Paulo Madeira (IPLeiria), Sajjad Sajjadi (TUS), Teresa Abreu (IPCA)

## ENGINEERING APPLICATIONS IN PYTHON 3<sup>RD</sup> EDITION

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29 MAY

WEDNESDAY 16H00-19H00 GMT - ONLINE

GMT+2	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00	19h00	20h00	21h00
GMT+1	10h00	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00	19h00	20h00
GMT	9h00	10h00	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00	19h00
WEDNESDAY 29/5										LECTURE	

### Python Dictionaries & Python Specific Modules

🕒 16h00-19h00

👤 Individual Work

👤 Ana Lemos (IPLeiria), Carlos Campos (IPLeiria), Paulo Madeira (IPLeiria), Sajjad Sajjadi (TUS), Teresa Abreu (IPCA)

📄 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.

31 MAY

FRIDAY 16H00-19H00 GMT - ONLINE

GMT+2	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00	19h00	20h00	21h00
GMT+1	10h00	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00	19h00	20h00
GMT	9h00	10h00	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00	19h00
FRIDAY 31/5										TEAM WORK	

### Examples & Exercises

🕒 16h00-19h00

👤 Group Work

👤 Live Session

👤 Teresa Abreu (IPCA), Sajjad Sajjadi (TUS), Ana Lemos (IPLeiria), Carlos Campos (IPLeiria), Paulo Madeira (IPLeiria)





# ENGINEERING APPLICATIONS IN PYTHON 3<sup>RD</sup> EDITION

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24 JUNE

MONDAY 9H00-17H00 - TUS MOYLISH

GMT+2	10h00	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00	19h00	20h00
GMT+1	9h00	10h00	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00	19h00
GMT	8h00	9h00	10h00	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00
MONDAY 24/6			WELCOME & OPENING	TEAM BUILDING	LUNCH BREAK			TEAM WORK: COACHING			

## Welcome Opening Presentation

- 🕒 9h00-10h30
- 👤 Individual Work

👤 Sajjad Sajjadi (TUS)  
Ana Lemos (IPLeiria)  
Carlos Campos (IPLeiria)  
Paulo Madeira (IPLeiria)  
Teresa Abreu (IPCA)

## Team Building Defining Groups & Coaching

- 🕒 10h30-12h00
- 👤 Group Work  
Live Session

👤 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.

## Team Work: Coaching

- 🕒 14h00-17h00
- 👤 Group Work  
Live Session

👤 Sajjad Sajjadi (TUS)  
Ana Lemos (IPLeiria)  
Carlos Campos (IPLeiria)  
Paulo Madeira (IPLeiria)  
Teresa Abreu (IPCA)

- 📄 Project development and python programming with coaching support.

## ENGINEERING APPLICATIONS IN PYTHON 3<sup>RD</sup> EDITION

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25 JUNE

TUESDAY 9H00-17H00 - TUS MOYLISH

GMT+2	10h00	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00	19h00	20h00
GMT+1	9h00	10h00	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00	19h00
GMT	8h00	9h00	10h00	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00
<b>TUESDAY 25/6</b>			TEAM WORK: COACHING			LUNCH BREAK		TEAM WORK: COACHING			

### Team Work: Coaching

🕒 09h00-12h00, 14h00-17h00

👥 Group Work  
Live Session

👤 Sajjad Sajjadi (TUS)  
Ana Lemos (IPLeiria)  
Carlos Campos (IPLeiria)  
Paulo Madeira (IPLeiria)  
Teresa Abreu (IPCA)

📄 Project development and python programming with coaching support.

# ENGINEERING APPLICATIONS IN PYTHON 3<sup>RD</sup> EDITION

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**26 JUNE**

**WEDNESDAY 9H00-17H00 - TUS MOYLISH**

GMT+2	10h00	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00	19h00	20h00
GMT+1	9h00	10h00	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00	19h00
GMT	8h00	9h00	10h00	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00
<b>WEDNESDAY 26/6</b>			CULTURAL ACTIVITY			LUNCH BREAK		CULTURAL ACTIVITY			

## Enterprise Visit

- 🕒 9h00-12h00
- 👥 Group Work

👤 Sajjad Sajjadi (TUS)  
Ana Lemos (IPLeiria)  
Carlos Campos (IPLeiria)  
Paulo Madeira (IPLeiria)  
Teresa Abreu (IPCA)

## Cultural Visit

- 🕒 14h00-17h00
- 👥 Group Work

👤 Sajjad Sajjadi (TUS)  
Ana Lemos (IPLeiria)  
Carlos Campos (IPLeiria)  
Paulo Madeira (IPLeiria)  
Teresa Abreu (IPCA)

- 📄 Guided tour of the city and historical monuments

# SHORT ADVANCED PROGRAMME

## ENGINEERING APPLICATIONS IN PYTHON 3<sup>RD</sup> EDITION

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27 JUNE

THURSDAY 9H00-17H00 - TUS MOYLISH

GMT+2	10h00	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00	19h00	20h00
GMT+1	9h00	10h00	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00	19h00
GMT	8h00	9h00	10h00	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00
THURSDAY 27/6			TEAM WORK: COACHING		LUNCH BREAK		TEAM WORK: COACHING	PROJECT PRESENTATIONS			

### Team Work: Coaching

🕒 09h00-12h00, 14h00-17h00

👥 Group Work  
Live Session

👤 Sajjad Sajjadi (TUS)  
Ana Lemos (IPLeiria),  
Carlos Campos (IPLeiria)  
Paulo Madeira (IPLeiria)  
Teresa Abreu (IPCA)

📄 Project development and python programming with coaching support.

### Project Presentations

🕒 15h30-17h00

👥 Group Work  
Live Session

👤 Sajjad Sajjadi (TUS)  
Ana Lemos (IPLeiria),  
Carlos Campos (IPLeiria)  
Paulo Madeira (IPLeiria)  
Teresa Abreu (IPCA)

📄 Presentations of group work will be given by participants in this session.

## ENGINEERING APPLICATIONS IN PYTHON 3<sup>RD</sup> EDITION

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28 JUNE

FRIDAY 9H00-12H00 - TUS MOYLISH

GMT+2	10h00	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00	19h00	20h00
GMT+1	9h00	10h00	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00	19h00
GMT	8h00	9h00	10h00	11h00	12h00	13h00	14h00	15h00	16h00	17h00	18h00
FRIDAY 28/6			PROJECT PRESENTATIONS	QUALITY ASSESSMENT							

### Project Presentations

🕒 9h00-11h00

👥 Group Work  
Live Session

👤 Sajjad Sajjadi (TUS)  
Ana Lemos (IPLeiria),  
Carlos Campos (IPLeiria)  
Paulo Madeira (IPLeiria)  
Teresa Abreu (IPCA)

📄 Presentations of group work will be given by participants in this session.

### Quality Assessment

🕒 11h00-12h00

👥 Group Work

👤 Sajjad Sajjadi (TUS)  
Ana Lemos (IPLeiria)  
Carlos Campos (IPLeiria)  
Paulo Madeira (IPLeiria)  
Teresa Abreu (IPCA)

📄 Group Learning Reflection,  
LearnWell questionnaire and  
feedback session.