SHORT
ADVANCED
PROGRAMME

FUTURE EXPLORATIONS

REGIONAL UNIVERSITY NETWORK
EUROPEAN UNIVERSITY

7 MAR - 23 APRIL 2022

+INFO: www.run-eu.eu

Organized by FHV, TUS and HAMK

PROGRAMME DESCRIPTION/OBJECTIVE

Global challenges form the starting point of this Short Advanced Program, which draws on methods of future assessment, design and innovation development to explore pathways to ecologically and socially sustainable futures. Each edition of "Future Explorations" focuses on one challenge area, the first being mobility and transport.
How can mobility be imagined and conceptualized in a new way? How can we foster more sustainable modes of transport? Concrete challenges will be developed with the involvement of cooperate partners. Based on the examination of different future scenarios, we will develop technologically supported and communicative solutions fostering sustainability in this field. Starting with an online week, an interdisciplinary team of lecturers and coaches will give input and guide the students in developing their concepts. The online week will be followed by a four week period of remote team work and coaching focusing on elaborating the concepts, which will then be realized in the presential week in Dornbirn.Within the frame of "Future Explorations" the students are expected to develop a prototype (proof of concept) (e.g. of a service, application or community model).

PROGRAMME DESCRIPTION/OBJECTIVE

The students know how to to assess future developments. They are able to develop and implement innovative technologically supported solutions addressing future challenges. They are able to combine theoretical as well as methodological competences in the process of innovation development and implementation. They know
how to work in an interdisciplinary team and face a final presentation including a panel discussion.

DATE **From 07 March to 23 April (Overall)**
Online sessions and remote teamwork:
07 to 11 March (07 March: lecturers only)
Contact Week: 19 to 23 April at FHV

MODE OF DELIVERY **Blended**

LENGTH **6 Weeks**

LOCATION **Online + FHV (Dornbirn, Austria)**

LANGUAGE OF INSTRUCTION English

ECTS CREDITS 03

EQF/LEVEL Bachelor/1st cycle (EQF 6).
Students from Master/2nd cycle (EQF 7) and PhD/3rd cycle (EQF 8)are welcome

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

HOW TO APPLY
Fill in the application form

DEADLINE FOR APPLICATIONS **14 February**

CONTACT DETAILS sap.future.explorations@fhv.at

POLITÉCNICO DE LEIRIA
Technological University of the Shannon: Midlands Midwest
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SELECTION CRITERIA
Motivation, learning objectives, wide representation of subject areas/fields and balanced participation of RUN-EU member institutions. A maximum of 25 students will be selected for this programme. The selection team will also take steps towards ensuring diversity and representativity.

LEARNING AND TEACHING STRATEGY
Input sessions, teamwork, coaching, final presentation.
Platforms: Teams, Miro

PRE-REQUISITES
No basic knowledge needed.

SPECIAL CONDITIONS
No special conditions

COURSES LEADERS | LECTURERS
Course leaders
Margarita Köhl (FHV)
Timo Karppinen (HAMK)
Lecturers
Karin Bleiweiss (FHV)
Natasha Doshi (FHV)
Michael Kneidl (FHV)
Ville Turunen (HAMK)
John Cosgrove (TUS)

PHYSICAL MOBILITY | SCHOLARSHIPS AVAILABLE
To be managed by home Institution.
Students' scholarships: Travel: 350€/person
Subsistence:400€/week
Maximum number of mobile students: 25
Flows/Institution: Applicant selection aims for wide representation of partner institutions implying an average maximum of five students peruniversity.
Final decision on the scholarships to be awarded falls under the responsibility of the Home Institution RUN-EU Project Leader and compulsorily requires IRO involvement.

MEANS AND CRITERIA FOR ASSESSMENT
teamwork + participation, work process, functionality of prototype, final presentation, progress report
Fail or Pass Assessment.

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.

REFERENCE READING
Available soon.

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PROGRAMME AT A GLANCE

CET	09 - 09h45	10 - 10h45	11 - 11h45	11h45 - 13h00	13 - 13h45	14 - 14h45	15 - 15h45	16 - 16h30
GMT	08 - 08h45	09 - 09h45	10 - 10h45	10h45 - 12h00	12 - 12h45	13 - 13h45	14 - 14h45	15 - 15h30
MONDAY 07/03	Meeting Lecturers/ Course Leaders							
TUESDAY 08/03	Welcome and Opening	Presentation of Challenge Areas / Challenges by Corporate Partners	Team-Building Session	Lunch Break	A Look into the Future: Future Assessment & Future Challenges. Approaches and Methods of Future Assessment & Design			
WEDNESDAY 09/03	Overview of Prototyping Possibilities & Examples	Design Driven Innovation: Models of Innovation Development and Design Processes	**Transport & Transportmanagement**	Lunch Break	Speculative Design Lab: Developing Ideas Applying the Method of Design Fiction			
THURSDAY 10/03	Best Practice & Research Insights	Tools for Prototype Development	**Workshop Demo: Sensor Technology, Software Tools**	Lunch Break	Design Studio: Process and Methods	**Internet of Things & Examples**	Bring it together! Integration, Transfer & Progress	
FRIDAY 11/03	Briefings	**Workshop Demo: From Sensordata to the Cloud**	Lunch Break	Presentation of First Ideas	Q&A and Outlook			
Weeks 11 - 14	Individual Teamwork 3h/Week; Coaching 3h/Week							
TUESDAY 19/04	Welcome, Introduction		Lunch Break	Workshop “The Wallet Project”			Check out	
WEDNESDAY 20/04	Briefings, Hardware & Software	Team Work	Lunch Break	Coaching			Check out, Guided Tour	
THURSDAY 21/04	Briefings, Project Needs	Team Work	Lunch Break	Coaching			Check out, Cultural Programme	
FRIDAY 22/04	Briefings, Presentation	Team Work	Lunch Break	Coaching			Check out	
SATURDAY 23/04	Preparation of Presentation	Final Presentation with Panel Discussion		Lunch Break	Learning Reflection Session		Farewell Party	

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08 MARCH

TUESDAY 09h00 - 16h00 CET

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TUESDAY 08/03	Welcome & Opening	Presentation of Challenge Areas & Challenges by Corporate Partners	Team-Building Session	Lunch Break	A Look into the Future: Future Assessment & Future Challenges. Approaches and Methods of Future Assessment & Design			

Welcome and Opening

09h00 - 9h45
Group Work
All lecturers

Introduction, project outline, learning objectives

Presentation of Challenge Areas & Challenges by Corporate Partners

10h00 - 10h45
Group Work
Corporate partners, all lecturers

In this particularly interesting session, the corporate partners will provide insight into the future challenges they face and outline the problems for which they do not yet have a solution. Gebrüder Weiss is an international company situated in the field of logistics and transport. Heron Innovation Factory is active in the field of innovation development.

Team-Building Session

11h00 - 11h45
Group Work
Natasha Doshi

In this workshop we will explore the different cultural and educational backgrounds of the participants and you will have the chance to meet your team-members.
We will engage in different online games and team-building activities. No worries, no singing or dancing required, just an open mind and then the fun-factor will be high. Promise!

A Look into the Future: Future Assessment & Future Challenges. Approaches and Methods of Future Assessment & Design

13h00 - 15h45
Group Work
Margarita Köhl

Have you ever wondered how experts define future challenges and formulate visions of the future, and how these can be addressed in design processes? And how can people's visions of the future be integrated into the design process? This talk will provide input on future assessment, future challenges, methods of future assessment & design (speculative design & design fiction) in terms of socially, ecologogically and economically sustainable development based on existing studies. The lecture promotes understanding of different conceptions of "future(s)" from philosophical, social science, artistic and economic perspectives. It provides basic knowledge about different approaches and methods of future assessment and design and outlines the potentials and differences of different methods such as forecasting and speculative design. In the workshop, students learn how to find and evaluate appropriate sources for developing future scenarios. They explore future challenges with regards to socially, ecologically and economically sustainable development based on existing studies - especially in the field of mobility and transport.

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09 MARCH

WEDNESDAY 09h00 - 11h45 CET

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WEDNESDAY 09/03	Overview of Prototyping Possibilities & Examples	Design Driven Innovation: Models of Innovation Development and Design Processes	**Transport & Transport-management**	Lunch Break	Speculative Design Lab: Developing Ideas Applying the Method of DesignFiction			

Overview of Prototyping Possibilities & Examples

09h00 - 9h45
Individual Work
Michael Kneidl, Timo Karppinen

Hardware, sensors, microcontrollers (Arduino, RaspberryPi, MbedO), the consept design tools for the applications (Figma), graphic editor for developing communication and interaction (NodeRED),... all the possibilities in the prototyping laboratory.

Design Driven Innovation: Models of Innovation Development and Design Processes

10h00 - 10h45
Individual Work
Karin Bleiweiss, Margarita Köhl

It is clear that the development of promising solutions for global challenges requires the networking of different knowledge and ways of thinking.

But what makes an idea viable? When is it an "innovation"? And under what conditions does an innovative product, concept or business model prevail? This lecture will promote understanding of the advantages of different design approaches (Design Thinking/ Human Centered Design; Design-driven innovation). Based on this, we will focus more closely on the design process introducing the approach of design driven innovation.

The lecture furthermore gives an insight into how innovations can be evaluated in terms of sustainability, including the effects of these models on the interaction between society, the environment, and the economy.

Transport & Transport-management

11h00 - 11h45
Individual Work
Ville Turunen

Mobility and transport are the source of many challenges with respect to the Sustainable Development Goals (SDGs), especially with regards the need to reduce environmental impacts and to increase efficiency.
This lecture introduces the basics of different kinds of networks and outlines how they answer to the different kinds of optimizing parameters in the field of mobility and transport. We start thinking about sustainable solutions linking up transport companys' systems and the systems of people's everyday routines. How could this add to making the networks of parcels work more efficient or better serving habits, which could open up new ways to build services.

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WEDNESDAY 09/03	Overview of Prototyping Possibilities & Examples	Design Driven Innovation: Models of Innovation Development and Design Processes	**Transport & Transport-management**	Lunch Break	Speculative Design Lab: Developing Ideas Applying the Method of Design Fiction			

Speculative Design Lab: Developing Ideas Applying the Method of Design Fiction

13h00 - 15h45
Individual and Group Work
Margarita Köhl, Natasha Doshi

What is design fiction? Imagine scrolling through an IKEA catalogue full of science-fiction-products or attending an exhibition where companies present completely new solutions not existing yet. This is design fiction – a design practice that aims at exploring possible features by creating speculative scenarios narrated through designed artifacts.

This module will give a general overview of the concept of design fiction and outline scenarios and contexts, where this approach can be used.

The session will also include a team-task, in which students will go through the four stages of the design fiction process (delve into futures / develop ideas / build prototypes / contextualize solutions).

Materials needed: paper, carton, scissors, glue/tape, colours, pens, etc.

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10 MARCH

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THURSDAY 10/03	Best Practice & Research Insights	Tools for Prototype Development	**Workshop Demo: Sensor Technology, Software Tools**	Lunch Break	Design Studio: Process and Methods	**Internet of Things & Examples**	Bring it together! Integration, Transfer & Progress	

Best Practice & Research Insights

09h00 - 9h45
Group Session
All lecturers

This session will provide examples for impactful and forward-looking projects in the field of mobility and transport. Furthermore, insights into studies on mobility behavior and behavioral change as well as promising emerging technologies will be presented. The goal is to identify key findings and criteria for success that can be used in the implementation of other projects.

Tools for Prototype Development

10h00 - 10h45
Individual Work
Michael Kneidl

Effective communications is vital in design and development teams.
The ideas can be presented, tested and modified in Proof of Concept prototypes.
The topics for this session: What is a POC? Creating POCs for smart IoT devices. Creating POC for applications and services.

Workshop Demo: Sensor Technology, Software Tools

11h00 - 11h45
Individual Work
Timo Karppinen

Smart devices and various kinds of applications need data on weather, occupation of a space, detection of objects, etc..On the online lesson the sensor will be simulated in a Python code. The data from a sensor is processed and forwarded to the applications.
The topics include: modern sensor, code for reading the sensor and processing the value, code for transmitting the sensor data. The students will learn how to use similar technology on their POC prototype.

Design Studio: Process and Methods

13h00 - 13h45
Group Session
Karin Bleiweiss, Margarita Köhl

In the design studio we will examine which methods and approaches are suitable for specific contexts as well as the respective phase of the design process. We will investigate the steps that have to be taken within a research-based designprocess, which encompasses in-depth analysis, creative thinking, building prototypes, exploring diverse ideas, iterative development through testing and redesign of the solution.

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10 MARCH

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THURSDAY 10/03	Best Practice & Research Insights	Tools for Prototype Development	**Workshop Demo: Sensor Technology, Software Tools**	Lunch Break	Design Process Methods	**Internet of Things & Examples**	Bring it together! Integration, Transfer & Progress	

Internet of Things & Examples

14h00 - 14h45
Individual Work
Timo Karppinen, Michael Kneidl

Overview of the Internet of Things IoT applications will be given. Operating principles will be learned by studying some example projects.

Second, students will understand conceptual development, iteration and the research objectives that have to be tackled within their field of interest.

Bring it together! Integration, Transfer & Progress

15h00 - 15h45
Group Session + Teamwork
Margarita Köhl, Natasha Doshi

This transfer session will focus on two fundamental goals: First, to integrate the approaches, knowledge, skills and techniques from other sessions into to a concept.

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11 MARCH

FRIDAY 09h00 - 16h00 CET

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FRIDAY 11/03	Briefings	Workshop Demo: From Sensor Data to the Cloud	Lunch Break	Presentation	Q&A and Outlook

Briefings

09h00 - 9h45
Group Work
All lecturers

Learning objectives

Workshop Demo: From Sensor Data to the Cloud

10h00 - 11h45
Individual Work
Timo Karppinen

In IoT and generally in future information systems the sensor data plays an important role. By studying a demostration we will learn how the information from a sensor is finally available in a cloud based application. The demonstrartion is an interactive one and students will be able to write and read the data with a simple application. The students will learn how to use similar technology on their POC prototype.

Presentation

13h00 - 14h45
Group Work
Corporate partners, all lecturers

The teams present their preliminary ideas and receive feedback.

Q&A and Outlook

15h00 - 15h45
Group Session
all lecturers

Review of the week, discussion of further steps

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14 MAR - 8 APR

MONDAY - FRIDAY

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GMT	08 - 08h45	09 - 09h45	10 - 10h45	10h45 - 12h00	12 - 12h45	13 - 13h45	14 - 14h45	15 - 16h30

Teamwork to be organized by Projectteams
3h / week

Coaching
3h / week

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19 APRIL | TUESDAY 09h00 - 17h00 CET

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TUESDAY 19/04	Welcome, Introduction	Lunch Break	Workshop "The Wallet Project"	check out

Welcome, Introduction

09h00 - 11h45
Group Work
All lecturers

Concept presentation, teams meet coaches, teambuilding activity, integration of feedback, input session transportguided tour through the labs, introduction software tools

Check out

16h00-16h30
Group Session
All lecturers

Daily reflection, next steps

Workshop "The Wallet Project"

13h00 - 16h00
Individual Work
Michael Kneidl

Design thinking Workshop.
From ideation to creation in 9 steps.

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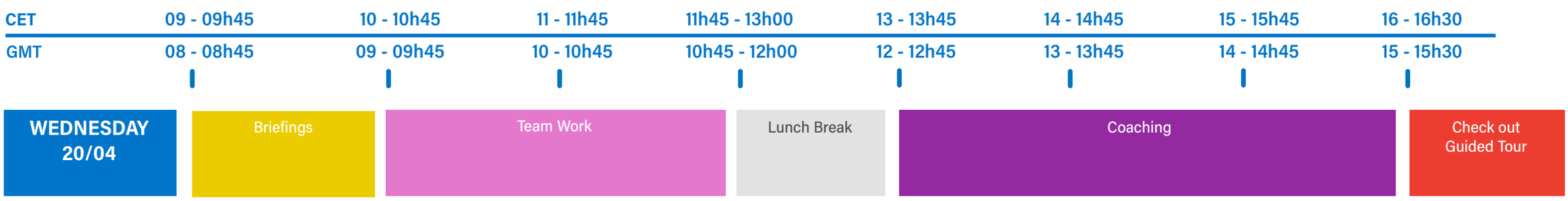
20 APRIL

WEDNEDAY 09h00 - 17h00 CET



Briefings

09h00 - 09h45
Group Work
Michael Kneidl, Timo Karppinen

Briefings: Hardware & Software

Team Work

10h00 -11h45
Individual Work
SAP course leaders and lecturers, corporate partners, participants

Team work.
Panel discussion.

Coaching

13h00 - 16h00
Group Work
SAP course leaders and lecturers, corporate partners, participants

Team work.
Prototyping.
Coaching.

Check out

16h00 - 16h30
Group session
All lecturers

Daily reflection, next steps

19h00
Guided tour
through Dornbirn

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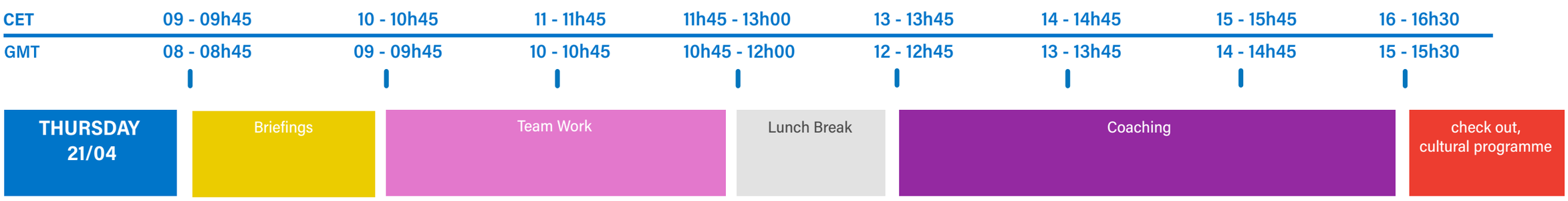
21 APRIL

THURSDAY 09h00 - 17h00 CET



Briefings

- 09h00 - 09h45
- Group Work
- SAP course leaders and lecturers, participants

- Briefings: Project Needs

Team Work

- 10h00 -11h45
- Group Work
- Participants

Coaching

- 13h00 - 16h00
- Group Work
- SAP course leaders and lecturers, participants

- Team work.
Prototyping.
Coaching.

Check out

- 16h00 - 16h30
- Group session
- All lecturers

- Daily reflection, next steps

- 19h00
- Cultural programme

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22 APRIL

FRIDAY 09h00 - 17h00 CET

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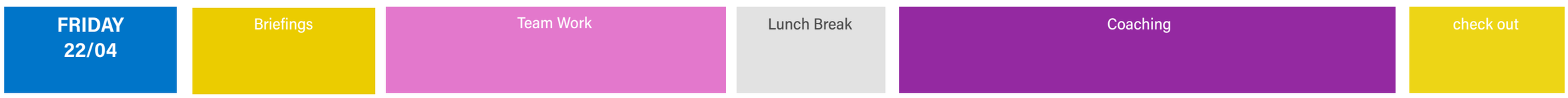

Briefings

- 09h00 - 09h45
- Group Work
- SAP course leaders and lecturers, participants

Briefings Presentation

Team Work

- 10h00 - 11h45
- Group Work
- Participants

Coaching

- 13h00 - 16h00
- Group Work
- SAP course leaders and lecturers, participants

Team work.
Prototyping.
Coaching.

Check out

- 16h00 - 16h30
- Group session
- All lecturers

Daily reflection, next steps

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Organized by FHV, TUS and HAMK

23 APRIL

SATURDAY 09h00 - 16h30 CET

Preparation of Presentation

- 09h00 - 09h45
- Group Work
- Participants, lecturers

Farewell Party

- 15h00 - 16h30
- Group session
- Participants, invited Guests

Final Presentation with Panel Discussion

- 10h00 - 11h45
- Group Work
- Corporate partners, participants, SAP course leaders, lecturers
- Presentation.
  Panel discussion.

Learning Reflection Session

- 14h00 - 15h00
- Group Work
- SAP course leaders and lecturers, participants

POLITÉCNICO DE LEIRIA
Technological University of the Shannon: Midlands Midwest
Ollscoil Teicneolaíochta na Sionainne: Lár Tíre Iarthar Láir
IPCA INSTITUTO POLITÉCNICO DO CÁVADO E DO AVE
HAMK HÄMEEN AMMATTIKORKEAKOULU HÄME UNIVERSITY OF APPLIED SCIENCES
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FHV Vorarlberg University of Applied Sciences

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