EUROPEAN HACKATHON

MARCH 2025
Paris - France

1/ Title: Towards sustainable logistics and goods transportation

2/ Type of participants (learners): students (Master 1 & 2 levels) from Université Gustave Eiffel and EU Partner Universities.

3/ Priorities addressed: Environment and fight against climate change

4/ Objectives and description:

Objectives:

The ambition of the training programme is to mobilise students from all over Europe to contribute, via a hackathon, to issues on evolution of mobilities and related needs, which is the topic addressed by the Université Gustave Eiffel within its partnership with AFIT France (French Organisation for Investments in Transportation and Infrastructure).

- The Hackathon is a part of an **Erasmus+ BIP programme** dedicated to forty master 1st and 2nd year students from the university Gustave Eiffel and its European partners and it takes advantage from their different learning backgrounds.
  The aim is to welcome between **20 and 40 students from the following 12 partner universities**: TH Köln (DE), LAUREA (FI), University of Zilina (SK), ISCTE-IUL (PT), UniBo (IT), PoliMi (IT), 'Dimitrie Cantemir' Christian University (RO), University Tomas Bata (CZ), University of Huelva (SP), Avans University of Applied Sciences (NL), IuaV (IT)), Bern University of Applied Sciences (CH).
- The duration of the programme is of **5 days of presential learning from 21 to 25 March 2025** (+ an equivalent of 2 days of distance learning before that).

The main objectives for the students are:

- To address sustainable mobility issues in an inter-disciplinary way within working groups mixing groups with different backgrounds;
- To interact and cooperate in English, discuss ideas and confront them to different territorial contexts;
- To improve their knowledge through insights from dedicated experts and mentors;
- To propose and defend innovative projects resulting from the Hackathon week in front of an international jury. Each project is expected to be user centric, sustainable, prototype oriented, viable from an economic point of view.

Description:

The programme is organised in **3 stages.**

Stage 1. Registration of students (from September to October 2024)

Target: a maximum of 40 students appointed by their home university.

The call for participation is open to partner universities in September. To be eligible, students must be Master's student and have a strong interest and motivation to participate. The organisers will define the working groups in such a way as to ensure the diversity of backgrounds (e.g. groups with students from different countries and a mix of disciplinary backgrounds).

The 12 partner universities commit to:

- notify the Université Gustave Eiffel of the names of 3 students selected and 2 students who will be on a complementary list by **25 october** at the latest.
- allocate Erasmus+ grant (or equivalent) to their selected students.

Participating students commit to:

- book their return transport to Paris **before 15 November** and to provide the Gustave Eiffel University with proof so that the latter can book accommodation accordingly.

Université Gustave Eiffel commits to fund:

- **overnight stays in Paris** from Friday March 21 in the evening to Tuesday March 25 in the morning. (any additional night will be the sole responsibility of the student).
- **lunchtime and diner catering** from Friday March 21 to Tuesday March 25.
- the social activities included in the programme.
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Stage 2. Active preparation of the Hackathon week (from January to March 2025) at City of Paris Engineering School (rue Rébeval, Paris 19th arrondissement)

This stage is a **distance learning programme** with a double focus: to enhance the knowledge through expert keynotes and to generate ideas to address the sustainable mobility issues.

During a first 3-hour webinar **(8 February 10:00-13:00 CET)**, after a presentation of the objectives, methods and expectations, two main lessons will be given, testimonies and feedback will be presented.

A second 3-hour webinar **(8 March 10:00-13:00 CET)** will be dedicated to the presentation of initial ideas and initial feedback from the mentors.

Between the two webinars, the working groups are expected to work on their first ideas on their own. They will be coached during this process with at **least two one-hour meetings with their coach**.

Stage 3. Hackathon week (March 21-March 25)

The students travel on Friday (Morning) and Tuesday (afternoon)

Organised on the premises of the University in the heart of Paris, this week, will be mainly dedicated to mature their innovative projects with following steps:

- o Day 1: from the idea to the value proposition
- o Day 2: from the value proposition to a first approach of a sustainable business model
- o Day 3: crash-test and refining of the projects
- o Day 4: preparation of the content and presentation of the pitch, rehearsals
- o Day 5: final rehearsals and presentation to the jury

During the 5 days, students will be provided with tools and methodological advice to guide their work. Mentors will attend some sessions to provide their expertise and feedback.

5/ Detailed schedule of the Hackathon week:

Friday 21 March 2025:

AM: Arrival of students, welcome at 12:00 PM and kick-off
PM: Team work (2pm - 6.30pm)
Evening: At the student residence

Saturday 22 March 2025:

AM: Team work (9am - 12.30pm)
PM: Team work and discussions with mentors (1:30pm - 6:30pm)
Evening: Dinner and evening with experts

Sunday 23 March 2025:

AM: Team work (9:30am - 12.30pm)
PM: Tours of Paris
Evening: Dinner

Monday 24 March 2025:

AM: Team work (9am - 12.30pm)
Afternoon and evening: rehearsals (13:30pm - 7:00pm)

Tuesday 25 March 2025:

AM: last rehearsals + final presentation in front of the jury and prize-giving ceremony (8:00am - 1pm)
PM: cocktail - Official closure and departures

Students will therefore attend approximately 30 hours of classroom training + 8 hours of distance learning (6 hours of webinars + 2 hours of individual coaching per team), i.e. approximately 38 hours.

6/ The learning team

Experts online: The experts involved in the first webinar on 08 February 2025 (10am>1pm) are senior researchers who will contribute their knowledge of mobility issues during the lessons and have experience in the field of education. The mentors mobilised online have expertise in the field of engineering/social science expertise on sustainable mobility.

Mentors: provide feedback and advice on feasibility (technological and economic point of views) during Stage 2 (second webinar on 8 march 2025, 10am>1pm) and 3 (Saturday 22 March with evening in Paris and rehearsals). The mentors mobilised have expertise in mobility and transportation issues and/or have an industrial or entrepreneurial background.

Organisers: they ensure the logistics during the venue of the students (hosting, catering, etc.).

Each participating student organises traveling with their respective university.

Learning coach: provides students with tools and methods to reach the expectations.

7/ Methods and outcomes:

Methods:

The main learning method is **an active problem solving method**. Students are encouraged to be pro-active with their dedicated team, to organise themselves effectively, to research and to take feedback from experts and mentors.

At the heart of the programme is an in-person hackathon. The preparatory stage (2) is distance learning. Students will be provided lessons from expert professors to get an insight into the current sustainable mobility issues. To generate their first ideas, they will be provided with specific tools and methodology inspired from innovation management and design thinking methods.

During stage 3, the working group sessions, which form the main part of the programme, will alternate with short method sessions (presentation of tools) inspired by Osterwalders methods on the business models canvas and discussion with mentors who will provide feedback and advice.

The preparation of the presentations will be guided by the rules of pitches with a focus on problem/solution/how to make it happen approach. As mentioned before, each project is expected to be user centric, sustainable, prototype-oriented and economically viable.

Outcomes:

The intended learning outcomes are to enhance capacity to:

- Design an original/innovative project;
- Position and address the issue in its complexity, including all the determinants of mobility;
- Questioning the application of the recommendations / solutions proposed (appropriation by the actors; existing sector; existing skills);
- Work in a new team with students from different backgrounds
- Deliver a relevant presentation with good rhetoric and elocution
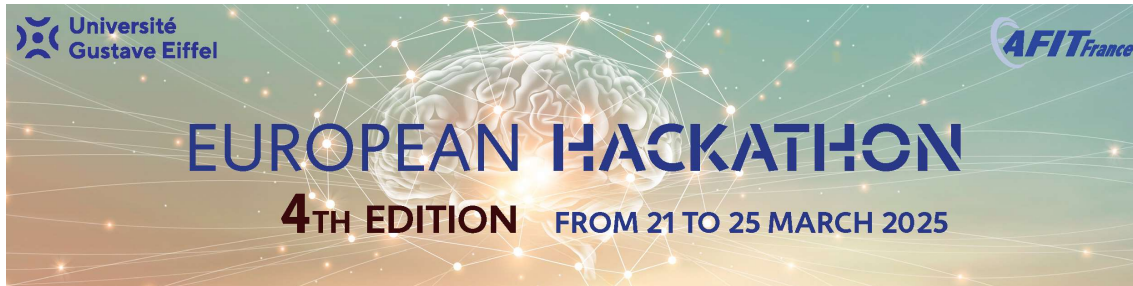
Field of education: 1041 Transport services, 0413 Business and administration
Level of study: Master's
Physical start date: Friday 21 March 2025
Physical end date: Tuesday 25 March 2025
Virtual component timetable: from Feb 8 & March 8 for on-line sessions, with group work in between
Virtual component duration: 2 days
Virtual component description: see description of stage 1.
Country of venue: France
City of venue: Paris, premises of the Université Gustave Eiffel at the EIVP
Main teaching/training language: English
Number of ECTS Awarded: 3
Accommodation: at the student residence in Paris