

## DATA LITERACY ENHANCE WINTER SCHOOL February-March 2023

The Winter School in Data Literacy is a module of the Certificate in Data Literacy, which aims to provide participants with the skills necessary to transform data into knowledge.

Participants of the Winter School in Data Literacy will be put into groups of 3 to 4 students made up of participants from various ENHANCE universities.

Participants will be given an open project challenge in Data Literacy scope that will be reviewed by academic teachers from Warsaw University of Technology (WUT), Technical University of Berlin (TUB) and Valencia Polytechnic University (UPV).

**Winter School is FREE OF CHARGE.** The Blended Intensive Programme (Erasmus+) will support students' participation.

### Main information:

**Timing:** 6-10 February 2023 onsite in Warsaw at WUT  
13 February – 12 March 2023 online via MS Teams

**Tutors and Speakers:** Anna Cena (WUT), Anna Wróblewska (WUT), Felix Buendia-Garcia (UPV), Jose V. Benlloch-Dualde (UPV), Timm Teubner (TUB), Kuntur Soveatin (WUT), Muhammad Farhan Safdar (WUT)

**Course level:** B.Sc and M.Sc

**ECTS:** 4 credit points

**Organizing unit:** Warsaw University of Technology (WUT)

**Co-organizers:** Blended Intensive Programme (Erasmus+), Technical University of Berlin (TUB) and Valencia Polytechnic University (UPV)

**The Winter School in Data Literacy schedule is split into two sections:**

#### • Training Section

Participants will be equipped with the necessary knowledge delivered by tutors; training modules will be provided. Students will learn introduction to Python (focused on data analysis), machine learning, and text processing

#### • Project Section

In accordance with the assumptions of the Challenge Based Learning methodology, at the very beginning of the Winter School, students will be provided with a challenge. The challenge will be solved up to the end of the Winter School when the students will gain the necessary knowledge.

### Prerequisites:

- Completed at least the first year of bachelor studies
- Basic Mathematics as function, matrices, basic graph theory, e.g. definition of tress
- Statistics and Probability
- Programming: nice to have but not necessarily
- Well-developed social competences

### General schedule:

**20 Jan. 2023**

**DEADLINE FOR THE REGISTRATION**

**6-10 Feb. 2023**

**40 h of onsite learning:**

- **Where:** at Warsaw University of Technology
- **Who:** WUT staff
- **Learning activities:** Lectures + workshops (20h) and project (20h) in international teams
- **Scope:** Introduction to Python (focused on data analysis), machine learning, text processing
- NLP

**13 Feb. – 12 Mar. 2023**

**40 h of online learning:**

- **Where:** online, MS Teams
- **Who:** WUT + TUB + UPV staff
- **Learning activities:** online lectures + workshops (20h) and continuation of the project (20h)
- **Online lecture:** 4h by prof. Tim Teubner (TUB) – topic: web scraping
- **Online Presentation (2h) + online supervision (2-4h)** by UPV, prof. Felix Buendia, prof. Jose V. Benlloch-Dualde – topic: Educational Learning Analytics
- Project tutoring and supervision

**20 h of teams self-work and reporting – asynchronous mode Project:**

- One challenge-based team project
- International teams, 3-4 students per team
- Concerns about data analysis
- Starting from the first day of WSiDL, finishes at the end of WSiDL
- With defined milestones (e.g., one on Feb. 10th – presentation of the current state of the work, at the end of the WSiDL (e.g., 12 Mar.) – presentation of the results)
- Report from the project work – one per team

### General outcomes:

Participants who successfully complete the course and present their results will be awarded a **certificate of participation** in the ENHANCE Winter School in Data Literacy with **4 ECTS** equivalence.

**Link to application form:**

**For more information:**

**DEADLINE FOR THE REGISTRATION**  
**20 JANUARY 2023**

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