Description
The architecture, engineering and construction (AEC) industry is currently undergoing a paradigm shift from plan-based to model-based work. The focus here is on a method known as Building Information Modeling (BIM). The ERASMUS+ cooperation BIM4HEI between European educational institutions enables the exchange of knowledge, the development of joint action strategies and the mutual evaluation of the teaching materials produced. Practical relevance is ensured through the involvement of professional associations (e.g. DVW) and the construction industry.

The construction industry has a great interest in digitally competent engineers and professional training. Building Information Modeling (BIM) offers the ideal core for interdisciplinary and internationalized training. BIM promotes collaborative planning, construction and operation of the built environment. The centerpiece is the digital collaboration.

Contents
• Day 1: Theoretical and practical basics of the BIM method
• Day 2: BIM, surveying and GIS
• Day 3: BIM management according to ISO 19650

Language
English

Location
HTW Dresden, Reichenbachstraße 1, 01069 Dresden, Germany

18.–20. June 2024
Dresden

Responsible (Dresden)
HTW Dresden (Prof. Clemen)
in co-operation with DVW AK3 “BIM”

Max. number of participants
20 (due to practical exercises in the PC lab)

Prices (incl. lunch in the canteen)
• with private overnight stay in Dresden € 30
• with overnight stay/breakfast (Mon–Fri) in guest house (DVW members in training) € 80
• with overnight stay/breakfast (Mon–Fri) in guest house € 120

Arrival
own responsibility

Registration
by e-mail to Alexander Bong: alexander.bong@htw-dresden.de
Please register by 15.04.2024, including your private address and overnight accommodation option (guest house yes/no, DVW yes/no)

Info
Prof. Dr. Christian Clemen christian.clemen@htw-dresden.de

Booking
Alexander Bong, M.Eng. alexander.bong@htw-dresden.de

Sign up now!

Supported by
DVW e.V. – Gesellschaft für Geodäsie, Geoinformation und Landmanagement

This event is organized by the Dresden University of Applied Sciences.
Program

The three-day short courses for students will take place in Prague, Aveiro and Dresden in summer 2024. Each BIM course will be attended by 20 students from each organizing partner. Lecturers from each project partner will participate to mutually evaluate the courses. The workshop in Dresden will be organized as follows:

**Tuesday, 18.06.2024 | 09:00–19:00**

BIM introduction, including a basic lecture on BIM use cases and roles as well as hands-on modeling with a BIM authoring tool. The hands-on exercise includes a guided, practical, component-structured modeling of a small building and individual components.

**Wednesday, 19.06.2024 | 09:00–19:00**

GeoBIM and information management, including a design thinking workshop on the differences between BIM and GIS, a presentation on georeferencing and geometric-topological modeling, hands-on modeling (georeferencing) in CAD/BIM, a workshop on conceptual modeling and a short presentation on exchange standards such as IFC, BCF and bsDD.

**Thursday, 20.06.2024 | 09:00–19:00**

Collaboration and common data environment (CDE), including basic presentations on ISO19650 project management and security requirements, CDE workflows and functionalities for the collaborative process of managing information and information containers (data) as a solution that meets the BIM inherent management and project processes (process) and requirements for functionality and performance. Various technical solutions for the processing of metadata will be discussed and best practice examples will be presented by speakers from the industry.

The workshops conducted with students during the BIM4HEI project phase will serve as a feedback loop for the development of the teaching materials.