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Erasmus+ Programme  
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HTW 

Exclusive  
for  
students

## Workshop

# DVW and ERASMUS Short-Summerschool "BIM"

18.–20. June 2024 | Dresden, Germany

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### 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.



**Location**  
HTW Dresden  
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Germany

