

BAUHAUS

SUMMER

SCHOOL

2023

# FORECAST ENGINEERING

19.8. – 2.9.2023

IN WEIMAR

& 4.9 – 8.9.2023

ONLINE

Virtualisation, Visualisation and Validation  
of Urban and Structural Building Responses

Apply by 1.5.2023!

Bauhaus-  
Universität  
Weimar

## Course Topics

In our two week intensive course »Forecast Engineering«, you will focus on the proficient handling of complex engineering tasks, using modern tools and finding their scientific positioning in existing interdisciplinary projects. A comprehensive grasp of special topics in civil engineering as well as the development of solutions by using modern methods and tools are some of the core aims of this course.

We want to provide you with insights into current research projects and international development trends. Therefore, we have invited international experts from partner universities and recognised research institutions to share their knowledge with you during impulse lectures.

For an interesting glimpse into the engineering work on-site, the course furthermore includes excursions to building sites and/or leading companies.

## Projects

The following projects will be offered:

- Project 1:** Use of Polymer-Modified Concretes (PCC) for Innovative Refurbishment Solutions
- Project 2:** Modelling of large deformations in geotechnical engineering
- Project 3:** Nonlinear modelling and analysis of unreinforced masonry structures
- Project 4:** Simulation of ultrasonic wave propagation and its application in detection of flaws in structure
- Project 5:** Scientific analyses on the structural behavior of load-bearing structures

**Apply for a funding through**

**Erasmus Blended Intensive Programm (BIP).**

