

# **Vorlesungsverzeichnis**

Sonderveranstaltungen

Sommer 2025

Stand 23.09.2025

## Sonderveranstaltungen

3

## Sonderveranstaltungen

### Summerschool P3: Use of Polymer-Modified Concretes (PCC) for Innovative Refurbishment Solutions

#### A. Flohr

Integrierte Vorlesung

Di, Einzel, 13:30 - 17:00, Coudraystraße 13 B - Seminarraum 210, Basics of PCC / Load-deformation of modified concretes, 19.08.2025 - 19.08.2025

Mi, Einzel, 13:30 - 17:00, Coudraystraße 13 B - Seminarraum 210, PCC for refurbishment solutions, 20.08.2025 - 20.08.2025

Do, Einzel, 09:00 - 12:30, Coudraystraße 13 B - Seminarraum 210, Multiscale modelling approach for PCC, 21.08.2025 - 21.08.2025

Do, Einzel, 13:30 - 17:00, Coudraystraße 13 B - Seminarraum 210, Exercises: NanoCT + Particle interaction, 21.08.2025 - 21.08.2025

Mo, Einzel, 09:00 - 12:30, Coudraystraße 13 B - Seminarraum 210, Exercise: Fresh concrete, 25.08.2025 - 25.08.2025

Di, Einzel, 13:30 - 17:00, Coudraystraße 13 B - Seminarraum 210, Exercise: Hardened concrete, 26.08.2025 - 26.08.2025

Do, Einzel, 09:00 - 12:30, Coudraystraße 13 B - Seminarraum 210, Exercise: Evaluation of test results, 28.08.2025 - 28.08.2025

#### Beschreibung

Concretes are modified by the addition of polymers in order to improve the durability and the adhesive strength and due to that measure they suit optimal for refurbishment applications. The microstructural changes in the binder matrix, which consists of both cementitious and polymer components, will be studied. Afterwards it will be analyzed how they influence the macroscopic properties. The students will perform and analyze laboratory tests on different pure polymer specimens and selected concrete specimens in order to better understand the microscopic origin of the macroscopic behavior. The link between the micromechanical and macroscopic properties is briefly established using a continuum micromechanics approach. Different innovative restoration applications are addressed, in addition some examples will be shown for the use of PCC for constructional purposes.

### Vortragsveranstaltung "Entrepreneurship und Technologietransfer"

#### N. Seitz

Sonstige Veranstaltung

Mi, Einzel, 17:00 - 20:00, Marienstraße 13 C - Hörsaal C, 18.06.2025 - 18.06.2025