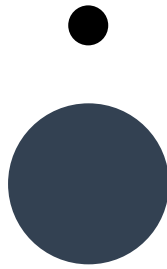


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**Hochschule Konstanz**  
University of Applied Sciences



**Course number: BIB 48161**  
**Earthquake Analysis of Structures**  
**with ETABS**  
**Study Level: Bachelor /**  
**Undergraduate**

**Prof. Dr. Dietlinde Köber**  
**Language of Instruction: English**  
**ECTS Credits: 2**

Contents:

This course gives basic and advanced knowledge of seismic input, computation of the seismic design force and structural layout in seismic regions. It enables students to choose adequate structural assemblies in plan and elevation, to design structural elements and apply specific rules for concrete buildings in seismic areas. The theoretical background as well as some numeric examples are presented. Seismic design of reinforced concrete framework and wall structures as well as infrastructure and foundation solutions are explained.

Assessment:

Assessment of this course is a selection of theoretical aspects questioned at the end of the course together with a small practical computation.