

Concrete Bridges

Subject area: Civil Engineering/Architecture

University:	CTU
Level:	BA4, MA all years
Teaching mode:	hybrid: some students participate online, other students attend real-life
Instructor(s):	R Lenner

Short description

The course of Concrete Bridges is focused on design and construction of this type of bridge structures. Lectures are devoted to spatial arrangement and equipment of road and railway bridges, bridge substructure, effects and realization of prestressing, types of concrete bridge structures and technologies of their construction. During seminars, design of a two-span continuous cast-in-situ single-track railway bridge is carried out.

Full description

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Learning outcomes

Identification of structural system for a bridge
Design of RC superstructure

Design of PT superstructure
Application of Bridge Loading
Application of Temperature Loads
Designing Integral Bridges

Recommended in particular for students of the following study programmes

Civil Engineering

General information

Contact hours per week: 4
Total workload: 100 (in student hours for the whole course)
ECTS credits: 4
Language: English

Course start date: 20 February 2023
Course end date: 28 May 2023
Add. info about start date: Start course date refers to starting date of spring semester at CTU. Schedule will be available 1 or 2 weeks before semester starts.

Weekly teaching day/time:

Time zone: CET (Denmark, Germany, France, Netherlands, Switzerland, Czech Republic)

Further information:

Prerequisites: Reinforced Concrete Design
Prestressed Concrete Design

Activities and methods: Lectures, Tutorial sessions

Presence on campus:

Final examination

Form: written
Date:
Location/format:
Re-sit possibility:
Transcript available: end of semester

Add. info/requirements:

Registration

To register for this course, follow the registration requirements of your **home university** as specified here: www.euroteq.eu/courses-registration.

Administration

Number of places:	20
Minimum participants:	5
Internal course code:	133YCB
Contact:	roman.lenner@fsv.cvut.cz

This course is part of the EuroTeQ Engineering University joint course catalogue 2023. This is a collaborative activity of the partner universities DTU, L'X, TU/e, TalTech, CTU, TUM as well as Technion. Students from these universities can participate in the offered courses. It is the responsibility of the student to check if you fulfil the requirements to participate in a specific course. Students are also advised to check with their home institution how to get recognition of the ECTS credits gained in courses of the EuroTeQ course catalogue. For further information about EuroTeQ Engineering University, visit www.euroteq.eu or get in touch with the above-mentioned point of contact.