

## DESIGN OF PRECAST CONCRETE STRUCTURES

Civil-414 GR C0 01  
 Lecture time: Tuesdays from 16:15 to 19:00  
 Semester dates: weeks of 18.02.2025 - 27.05.2025

Week	Date	Distribution of hours (3 per week)			Lecture topic	Lecturer	Project discussion	Topic of project presentations
		Lecture	Project work/discussion	Project presentation				
1	18.02.2025	2	1	0	Introduction to Prefabrication + Building and floors	DFO, FM, EC	Group formation, project introduction	
2	25.02.2025	2	1	0	Elément SA. Building floors. Introduction to Prestressing I	JP Hubert, Frédéric Monney	Conceptual design	
3	04.03.2025	2	1	0	Bridges. Prestressing II	Fred Monney, DFO,	Conceptual design	
	11.03.2025				No class			
4	18.03.2025	0	6	0	Visit to precast factory 13:30-18:30	JP Hubert		
5	25.03.2025	1	2	0	Composite design, connections	DFO, FM, EC	General design	
6	01.04.2025	1	2	0	Presentation Peikko connections. Design of connections:	Jan Bujnak, DFO, FM, EC	General design	
7	08.04.2025	0	0	3		DFO, FM, EC		General design phase (I)
8	15.04.2025	0	0	3		DFO, FM, EC		General design phase (II)
	22.04.2025				Semaine de Pâques			
9	29.04.2025	0	3	0		DFO, FM, EC	General discussion	
10	06.05.2025	0	0	3		DFO, FM, EC	General discussion	
11	13.05.2025	0	3	0		FM, EC	General discussion	
12	20.05.2025	0	0	3		DFO, FM, EC		Final group presentations (I)
13	27.05.2025	0	3	0		DFO, FM, EC		Final group presentations (II)
TOTAL		8	22	12				
				42				

### Project organization

#### Material to be evaluated

Calculation Report  
 Drawings  
 Oral Presentation:

- A total of 2 presentations will be made by each group
- The two intermediate presentations will be 10' presentation and 5' discussion on the presentation, and will be based on the intermediate stages of the design (conceptual design and detailing of elements and connections)
- The final group presentation will have a longer duration, to be determined based on the number of groups, and will be based on the complete project

The Calculation Report and the Drawings will be handed in by the end of the Semester in order to allow for corrections arising during the presentation

#### Assistants de construction:

Frederic Monney  
 Enrique Corres