CIVIL-706 Advanced Earthquake Engineering

Diana Lorenzo, Lestuzzi Pierino

Cursus	Sem.	Туре	Language of	English
Civil & Environmental Engineering		Obl.	teaching	English
			Credits	2
			Session	
			Exam	Oral
			Workload	60h
			Hours	28
			Courses	22
			TP	6
			Number of positions	

Frequency

Every 3 years

Remark

Every three years/ Next time: Fall 2019. Minimum 6 inscrits

Summary

This course deals with the complex problem of seismic evaluation of existing structures; by far more complicated than for new structures. Aims are to: - show how and why the analysis methods need improvements to be used in this context. - provide an insight of the different retrofitting methods.

Content

- Particularity of existing structures in seismic context
- · Vulnerability and seismic evaluation
- Analysis methods
- Strength and displacement based evaluation
- Retrofitting methods (design and technology)

Resources

Websites

• http://imac.epfl.ch/page-13653-en.html