Session:	April 2023
Institution:	Politecnico di Milano
Course location:	Politecnico di Milano
Course address:	Piazza Leonardo Da Vinci 32, 20133 Milan, Italy
e-mail of local Athens	michela.gregori@polimi.it
coordinator:	
Course takes place:	CAMPUS LEONARDO
Will switch to 'online' if	No
necessary: (to be	
confirmed)	
Course title:	Architectural Heritage: from 3-D geometric survey to
	structural analysis
Type of course:	Classic ATHENS course
Course code:	POLI47
Minimum year of study:	3
Language of tuition:	English

Prerequisites:	Structural Mechanics, Theory of Elasticity, fundamentals of the Finite Element Method. Students should bring their own laptop.
Objectives:	 The course aims to familiarize students with the problems that are commonly encountered in the structural analysis of historical buildings. Among others: The importance of accurately describing the real geometry of the building The difficulties in obtaining the mechanical properties of the material The correct definition of the boundary conditions
	(loads and constraints) The students will be asked to define the numerical model of a real historical building, to carry out structural analyses using a commercial computer software. The results will be illustrated and critically discussed in the final report.

Programme to be followed:	The	9 ho and and and a on 6 ho elem 6 ho mod 3 ho final 15 n	urs of materi their n lab tes e-day urs of urs of el and urs foi report nin)	Include lecture ial mechar sts; pre visit to practic oftware autono writing the pr t (each	es: chanic nical b senta the c cal act cal act g of th resent group	historio s, typi ehavio tion of ase st ivities work e final ation a o of 2-1	cal bu cal str our, su the c udy on the on the repor and di 3 stuc	ildings ructura arveyil ase s e use e use e num t scuss lents v	s (mate al elem ng, in-s tudy) of a fir erical ion of will be	erials nents situ nite the given
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Course even: Written report and public discussion by groups
Course exam: Written report and public discussion by groups
Course exam. Written report and public discussion by groups
Professor responsible: Prof. Alberto Taliercio
Participating
professors:
Categories: Building and civil engineering
Contact: alberto.taliercio@polimi.it