UNIVERSITÀ DI PAVIA

Anno Accademico 2016/2017

STRUCTURAL ENGINEERING - MODULE	
Enrollment year	2013/2014
Academic year	2016/2017
Regulations	DM270
Academic discipline	ICAR/09 (CONSTRUCTION TECHNIQUES)
Department	DEPARTMENT OF CIVIL ENGINEERING AND ARCHITECTURE
Course	
Curriculum	PERCORSO COMUNE
Year of study	4°
Period	1st semester (05/09/2016 - 20/01/2017)
ECTS	9
Lesson hours	120 lesson hours
Language	English
Activity type	WRITTEN AND ORAL TEST
Teacher	FURINGHETTI MARCO - 3 ECTS MAGENES GUIDO - 2 ECTS PAVESE ALBERTO - 2 ECTS SILVA MOURA PINHO RUI JORGE - 2 ECTS
Prerequisites	Course of Structural mechanics or equivalent
Learning outcomes	Student are introduced to some fundamental methods for hand calculation of linear elstic structures. Furthermore, fundamental notions on the structural design of reinforced concrete and steel structures are provided.
Course contents	The conjugate beam method for the evaluation of displacements and rotations in elastic beam elements. Analysis of simple statically determinate and statically indeterminate structures. Linear elastic sway frames, methods of analysis. Shear strength of reinforced concrete structural members.

Teaching methods

Frontal lectures and solved examples. Handouts are given to be solved individually by students.

Reccomended or required readings

R.C Hibbeler, "Structural Analysis", MacMillan

Mosley, Bungey, Hulce "Reinorced concrete design to Eurocode 2", Palgrave ed.

Assessment methods

The exam consists of a written and oral part, which is comprehensive of the program of the whole 12 ECTS course of Structural engineering.

Further information

Sustainable development goals - Agenda 2030	$lbl_legenda_sviluppo_sostenibile