



COURSE: DESIGN OF STRUCTURES

TYPE OF EDUCATIONAL ACTIVITY: Characteristic

ACADEMIC YEAR: 2019-2020

TEACHER: Marco VONA

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mobile (optional):

Language Italian

ECTS: 6

n. of hours: 54

Campus: Potenza
School of Engineering
Program: Civil Engineering

Semester: I

EDUCATIONAL GOALS AND EXPECTED LEARNING OUTCOMES

Analysis and design of structures, Analysis and design of flat-slab structures. Design of precast structures. Material properties.

PRE-REQUIREMENTS

Civil engineering and structural engineering

TOPICS

Analysis and design of flat-slab structures. Analysis and design of membrane structures. Comparison between different modelling and analysis techniques. Theory and design of pipes. Theory of Shell Structures. Design of precast structures. Material properties. Works

TEACHING METHODS

Theoretical lessons, Tutorials in classroom, Project works, Technical visits

EVALUATION METHODS

Riportare una (o più) delle seguenti voci: Intermediate verifications, Written examination, Discussion of a project work, Practical test, Oral examination, Other methods (specificare).

Sintetizzare in lingua inglese i contenuti di dettaglio riportati nella scheda in lingua in italiana.

TEXTBOOKS AND ON-LINE EDUCATIONAL MATERIAL

Progettare i Gusci, G.M. Calvi, R. Nascimbene, IUSS Press

Calcolo di lastre e piastre. Bares R., Maggioli Editore, 2008

Linee guida per la progettazione delle piastre in c.a. Gambarova P. G., Coronelli D., Bamonte P., Patron editore, 2007

Normative: NTC 2018, Nuove norme tecniche per le costruzioni. CIRCOLARE 2 febbraio 2009, n. 617, Istruzioni per l'applicazione delle «Nuove norme tecniche per le costruzioni» di cui al decreto ministeriale 14 gennaio 2008.

Scientific Article and other Technical material

web address: <http://www.oldunibas.it/utenti/vona/>

FB Group: Progettando e riabilitando (forse) strutture

INTERACTION WITH STUDENTS

Riportare in lingua inglese i contenuti riportati nella scheda in lingua in italiana.

EXAMINATION SESSIONS (FORECAST)¹

05/02/2020, 12/03/2020, 16/04/2020, 21/05/2020, 18/06/2020, 23/07/2020, 24/09/2020, 29/10/2020, 18/12/2020

SEMINARS BY EXTERNAL EXPERTS YES NO

¹Subject to possible changes: check the web site of the Teacher or the Department/School for updates.