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**COURSE: DESIGN OF STRUCTURES**

TYPE OF EDUCATIONAL ACTIVITY: Characteristic

ACADEMIC YEAR: 2017-2018

TEACHER: Marco VONA

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phone: +39 0971205063

mobile (optional):

Language Italian

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ECTS: 9

n. of hours: 80

Campus: Potenza  
School of Engineering  
Program: Civil Engineering

Semester: I

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**EDUCATIONAL GOALS AND EXPECTED LEARNING OUTCOMES**

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

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**PRE-REQUIREMENTS**

Civil engineering and structural engineering

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**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

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**TEACHING METHODS**

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

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**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.

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**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: DM 14.01.2008, 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

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**INTERACTION WITH STUDENTS**

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

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**EXAMINATION SESSIONS (FORECAST)<sup>1</sup>**

04/02/2018, 11/03/2018, 14/04/2018, 19/05/2018, 16/06/2018, 21/07/2018, 22/09/2018, 27/10/2018, 15/12/2018

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SEMINARS BY EXTERNAL EXPERTS YES  NO

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