COURSE: Materials and Technologies for the Environment

ACADEMIC YEAR: 2019-2020

TYPE OF EDUCATIONAL ACTIVITY: Characteristic

TEACHER: Antonio Telesca

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ECTS: 9
n. of hours: 90

Campus: Potenza
School of Engineering
Program: Civil and Environmental Engineering

Language: ITALIAN

EDUCATIONAL GOALS AND EXPECTED LEARNING OUTCOMES
The main knowledges refer to:

- Relationships among composition, microstructure and properties of metals, polymers and ceramics.
- Materials and substances mainly related to the Civil and Environmental Engineering Fields.
- Main physico-chemical water treatment techniques.
- Solid, liquid and gaseous fuels.

Skills:
The student will be able to:

- select the most suitable materials to be employed in the Civil and Environmental Engineering Fields
- determine the most effective methodology for the treatment of civil water on the basis of the required chemical-physical characteristics
- evaluate the main fuel technological parameters

PRE-REQUIREMENTS
Basic concepts of Fundamentals of Chemistry

SYLLABUS

TEACHING METHODS
Theoretical lessons, Classroom tutorials.

EVALUATION METHODS
Written examination lasting 2 hours.
TEXTBOOKS AND ON-LINE EDUCATIONAL MATERIAL

- Notes from lectures
- W.D. Callister, D.G. Rethwisch – Scienza ed Ingegneria dei Materiali - EdiSES
- C. Brisi – Lezioni di Chimica Applicata, Editrice Universitaria Levrotto & Bella, Torino.
- L. Bertolini – Materiali da costruzione, CittàStudi Edizioni.

INTERACTION WITH STUDENTS
Wednesday 3-5 pm. Other appointments can be arranged with students by e-mail.

EXAMINATION SESSIONS (FORECAST)
06/02/2020; 20/03/2020; 08/05/2020; 12/06/2020; 16/07/2020; 17/09/2020; 06/11/2020; 11/12/2020

SEMINARS BY EXTERNAL EXPERTS  YES X  NO □

FURTHER INFORMATION

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