



COURSE: WATER MANAGEMENT

ACADEMIC YEAR:2016/17

TYPE OF EDUCATIONAL ACTIVITY: Characteristic

TEACHER: SALVATORE MANFREDA

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phone: 0971205139

mobile (optional):

Language: italian

ECTS: 9.0

n. of hours: 51lessons;
30 tutorials/practice.

Campus: Potenza
School:
Program:

Semester: I

EDUCATIONAL GOALS AND EXPECTED LEARNING OUTCOMES

The course aims to provide the project principle for water management and advanced methodology in hydrological application.

PRE-REQUIREMENTS

Hydraulic, Hydraulic construction and hydrology

SYLLABUS

Water Management and water requirements,
Water balance,
The water requirements in agriculture and for drinking water,
Water availability and management,
Statistic of high and low extremes (drought and floods);
Derived distribution applied in engineering applications;
Design of fluvial structures;
Design of open channels;
Derivation structures;
DAMS;
High pressure pipelines;
Hydropower plants;
Dissipation basins;
Quality of water in agriculture;
Soil drainage;
Pumping systems;
Irrigation systems;
Saving water tecnques in agriculture;
Vulnerability od ground water resources.

TEACHING METHODS

Theoretical lessons
Tutorials in classroom
Project works

EVALUATION METHODS

Discussion of a project work and oral examination

TEXTBOOKS AND ON-LINE EDUCATIONAL MATERIAL

On-line educational material on: <http://www2.unibas.it/manfreda>

Manfreda, S., V. Iacobellis, M. Fiorentino, Appunti di Idrologia Superficiale, Aracne Editrice, pp176, 2010 (ISBN: 978-88-548-3203-9).



INTERACTION WITH STUDENTS

The teacher will be available for interaction with the students on Thursday and Friday.

EXAMINATION SESSIONS (FORECAST)¹

13/02/2018, 18/06/2018, 16/07/2018, 17/09/2018, 22/10/2018, 10/12/2018

EVALUATION BOARD

Salvatore Manfreda, Mauro Fiorentino, Ruggero Ermini, Maria Rosaria Margiotta

SEMINARS BY EXTERNAL EXPERTS YES NO

FURTHER INFORMATION

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