



FLUVIAL HYDRAULICS	
Enrollment year	2014/2015
Academic year	2015/2016
Regulations	DM270
Academic discipline	ICAR/01 (HYDRAULICS)
Department	DEPARTMENT OF CIVIL ENGINEERING AND ARCHITECTURE
Course	ENVIRONMENTAL ENGINEERING
Curriculum	IMPIANTISTICO
Year of study	2°
Period	1st semester (28/09/2015 - 15/01/2016)
ECTS	6
Lesson hours	45 lesson hours
Language	Italian
Activity type	WRITTEN AND ORAL TEST
Teacher	GHILARDI PAOLO - 6 ECTS
Prerequisites	basic knowledge of Hydraulics
Learning outcomes	The student will learn about the hydraulics of natural streams and the solid transport processes, and will be able to perform practical numerical computations of flow characteristics in natural streams.
Course contents	Principles of fluvial geomorphology Resistance to flow in natural streams Solid transport in natural streams Mathematical models of river flow
Teaching methods	lectures, practical work with computers

**Reccomended or required
readings**

Armanini, A.. Principi di idraulica fluviale. BIOS. second edition.

Da Deppo L., Datei C., Salandin P.. Sistemazione dei corsi d'acqua.
Libreria Cortina, Padova.

Przedwojski B. et al.. River Training Techniques. Balkema.

Lecture notes available on Kiro.

In the final test the successful candidate will be able to understand hydraulics and sediment transport processes in natural streams, and to design solution strategies for numerical computation of flows in natural streams.

