



FLUVIAL HYDRAULICS	
<b>Enrollment year</b>	2013/2014
<b>Academic year</b>	2014/2015
<b>Regulations</b>	DM270
<b>Academic discipline</b>	ICAR/01 (HYDRAULICS)
<b>Department</b>	DEPARTMENT OF CIVIL ENGINEERING AND ARCHITECTURE
<b>Course</b>	ENVIRONMENTAL ENGINEERING
<b>Curriculum</b>	ENERGIE RINNOVABILI
<b>Year of study</b>	2°
<b>Period</b>	1st semester (29/09/2014 - 16/01/2015)
<b>ECTS</b>	6
<b>Lesson hours</b>	45 lesson hours
<b>Language</b>	Italian
<b>Activity type</b>	WRITTEN AND ORAL TEST
<b>Teacher</b>	GHILARDI PAOLO - 6 ECTS
<b>Prerequisites</b>	basic knowledge of Hydraulics
<b>Learning outcomes</b>	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.
<b>Course contents</b>	Principles of fluvial geomorphology Resistance to flow in natural streams Solid transport in natural streams Mathematical models of river flow
<b>Teaching methods</b>	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.

## Further information

