



RIVER TRAINING AND FLOODPLAIN PROTECTION

Enrollment year	2014/2015
Academic year	2015/2016
Regulations	DM270
Academic discipline	ICAR/02 (MARITIME HYDRAULIC CONSTRUCTION AND HYDROLOGY)
Department	DEPARTMENT OF CIVIL ENGINEERING AND ARCHITECTURE
Course	ENVIRONMENTAL ENGINEERING
Curriculum	IMPIANTISTICO
Year of study	2°
Period	2nd semester (29/02/2016 - 10/06/2016)
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 and hydrology; Fluvial Hydraulics course is warmly suggested
Learning outcomes	the student will learn the basis of river works and floodplain management
Course contents	Fluvial geomorphology and river mechanics Streambank stabilization techniques Levees River basin management Risk assesment in floodplains

	Flood mitigation
Teaching methods	lectures and practical work with computers
Reccomended or required readings	<p>Course lecture notes available on Kiro.</p> <p>Armanini, A.. Principi di idraulica fluviale. BIOS.</p> <p>Da Deppo L., Datei C., Salandin P.. Sistemazione dei corsi d'acqua. Libreria Cortina, Padova.</p> <p>Przedwojski B. et al.. River Training Techniques. Balkema.</p>
Assessment methods	the successful candidate will be able to solve a written test showing his or her capability to understand and apply the basic skills of river works design and of floodplain management strategies
Further information	
Sustainable development goals - Agenda 2030	\$lbl legenda sviluppo sostenibile