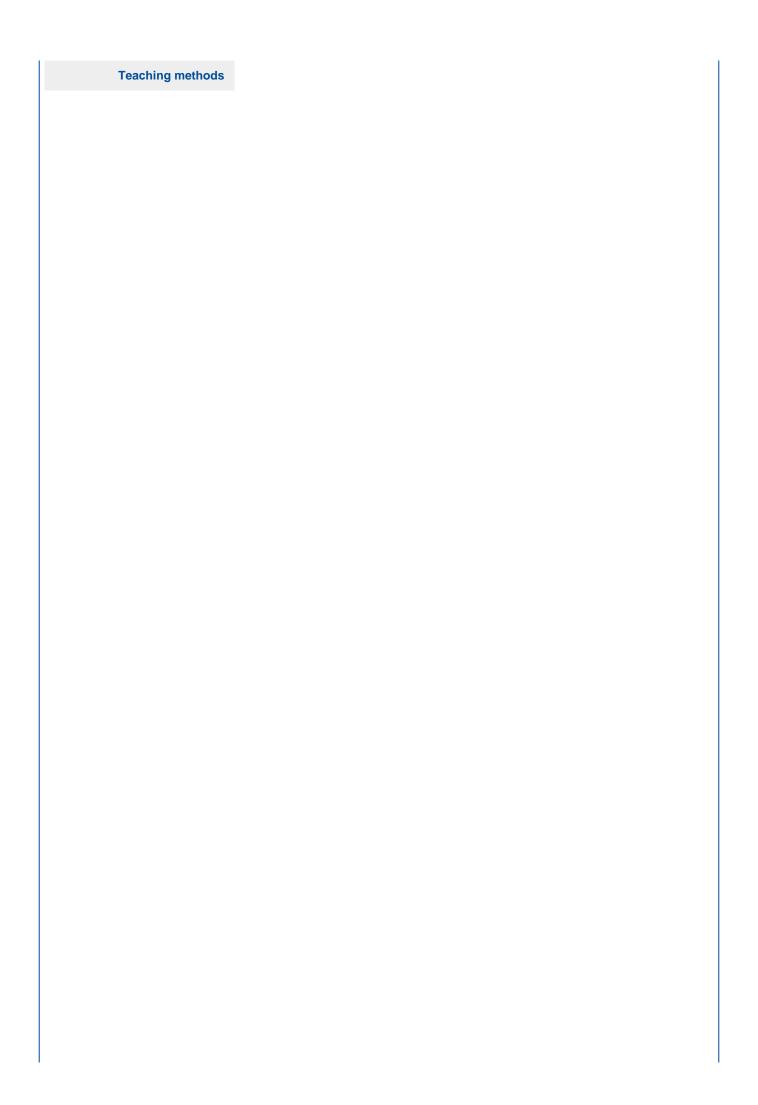


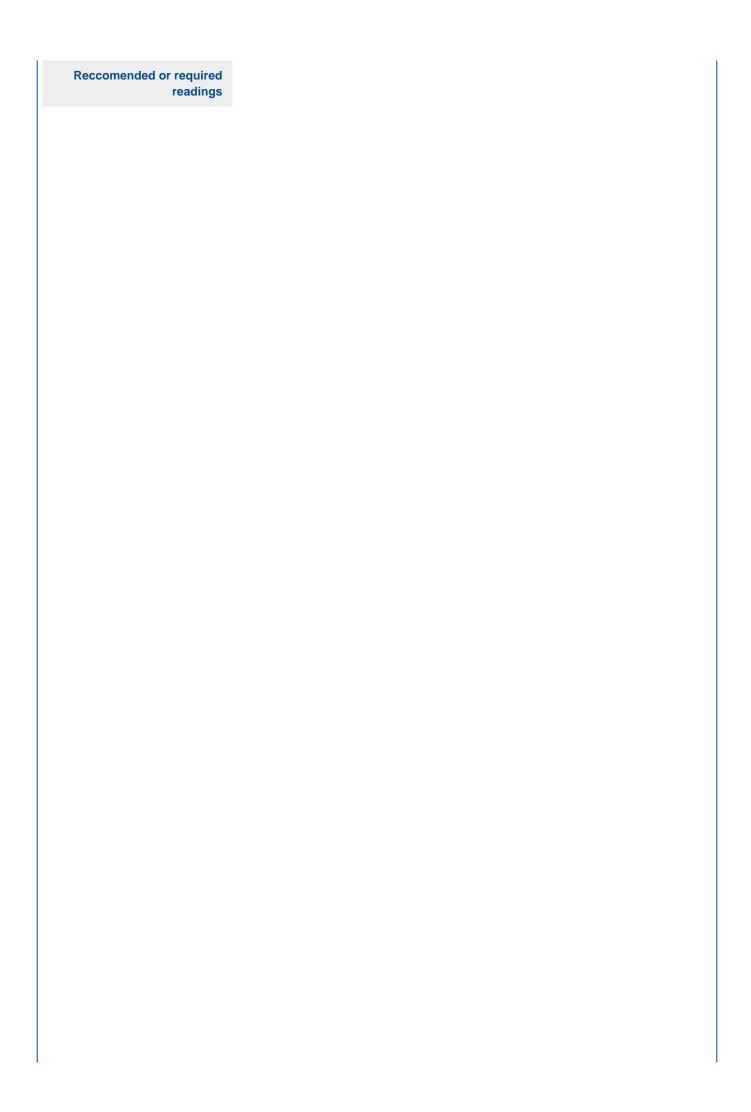
Anno Accademico 2021/2022

Alillo Accadellico 2021/2022				
RIVER TRAINING AND FLOODPLAIN PROTECTION				
Enrollment year	2020/2021			
Academic year	2021/2022			
Regulations	DM270			
Academic discipline	ICAR/01 (HYDRAULICS)			
Department	DEPARTMENT OF CIVIL ENGINEERING AND ARCHITECTURE			
Course	CIVIL ENGINEERING			
Curriculum	Idraulico			
Year of study	2°			
Period	2nd semester (07/03/2022 - 17/06/2022)			
ECTS	6			
Lesson hours	47 lesson hours			
Language	Italian, English			
Activity type	ORAL TEST			
Teacher	GHILARDI PAOLO (titolare) - 6 ECTS			
Prerequisites	Basic knowledge of free surface hydraulics and sediment transport mechanics. A knowledge of the main concepts of slope stability, hydrological processess and groundwater flow is warmly suggested.			
Learning outcomes	To learn the main methods for river flow and sediment transport control, including interaction between river flow and structures.			
Course contents	 flood control: detention basins, spillways, levees solid transport control: . Bank protection and stabilization, river training techniques Interaction between structures and water and sediment flow, e.g., brridges, culverts vulnerability reduction 			

• main regulations: PAI, PGRA, reference agencies and organizations



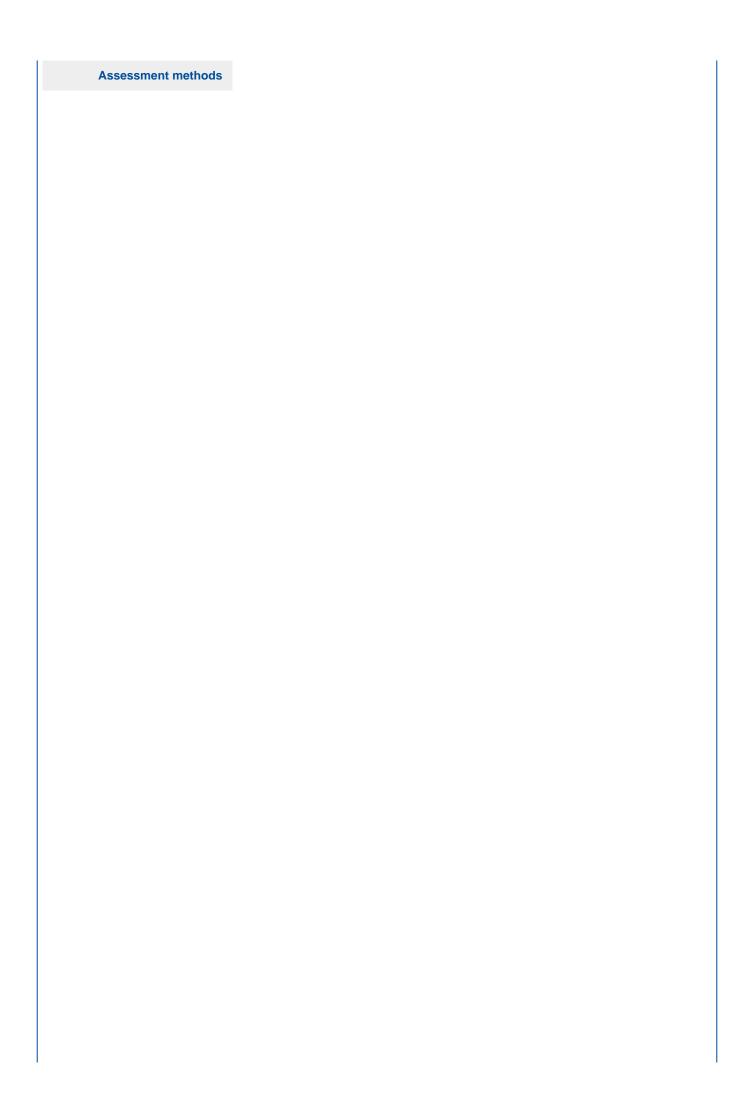
ectures with slides and multimedia projection, numerical exercises on pical practical cases.



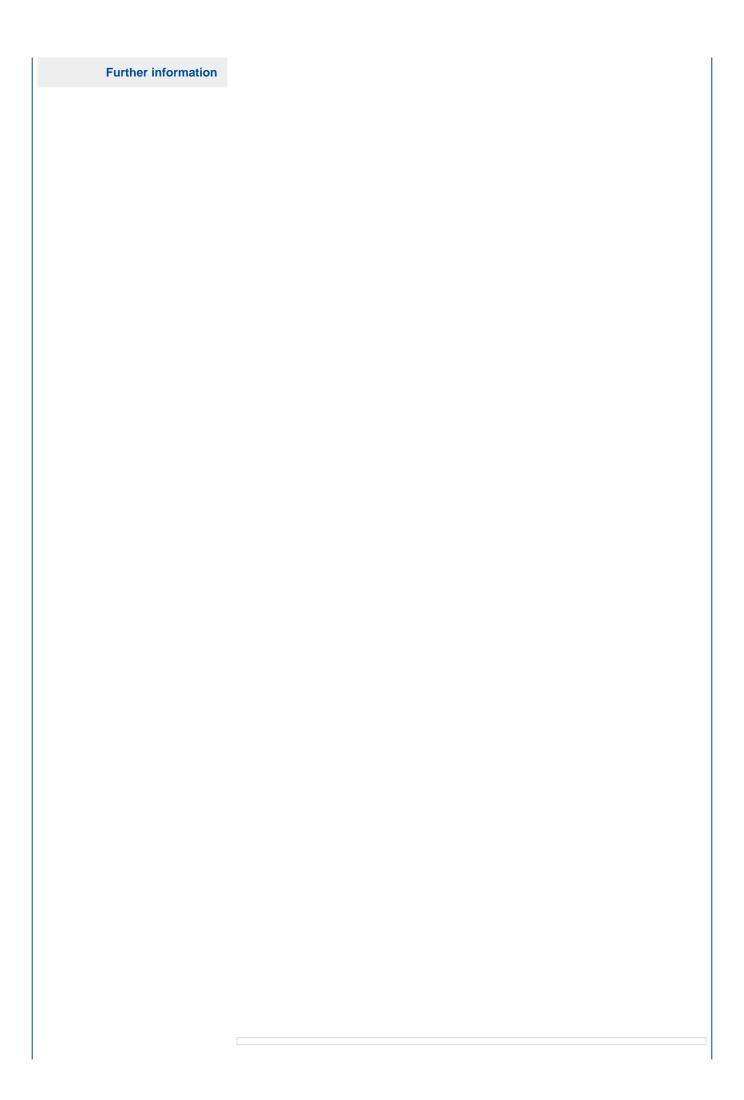
Da Deppo L., Datei C., Salandin P.. Sistemazione dei corsi d'acqua. Libreria Cortina, Padova.

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

Course lecture notes available on Kiro



Oral exam	



Sustainable development goals - Agenda 2030

\$lbl legenda sviluppo sostenibile