UNIVERSITÀ DI PAVIA

Anno Accademico 2021/2022

WATERWORKS AND SEWERAGE SYSTEMS

Enrollment year	2019/2020
Academic year	2021/2022
Regulations	DM270
Academic discipline	ICAR/02 (MARITIME HYDRAULIC CONSTRUCTION AND HYDROLOGY)
Department	DEPARTMENT OF CIVIL ENGINEERING AND ARCHITECTURE
Course	CIVIL AND ENVIRONMENTAL ENGINEERING
Curriculum	PERCORSO COMUNE
Year of study	3°
Period	1st semester (27/09/2021 - 21/01/2022)
ECTS	6
Lesson hours	46 lesson hours
Language	Italian
Activity type	ORAL TEST
Teacher	TODESCHINI SARA (titolare) - 6 ECTS
Prerequisites	Fundamental of hydraulics: physical and mechanical quantities and units of measurement; hydrostatics; foronomy and flow measurement; fundamentals of kinematics of liquids; hydrodynamics; head losses. Fundamentals of hydrology: intensity-duration-frequency curves; design hyetographs; Rainfall-runoff methods; instantaneous unit hydrograph.
Learning outcomes	Students will acquire good theoretical knowledge on water supply and distribution systems and on urban drainage systems for waste water and storm water. The course also deals with the aims of the 2030 Agenda for Sustainable Development of the United Nations. The course proposes design and management approaches consistent with important issues of the 2030 Agenda.
Course contents	Water resource and its uses; drinking water quality; capture, transport and distribution for water supply systems; urban drainage systems for

	waste water and storm water collection and transport. Some topics of the course are consistent with important issues of the 2030 Agenda for Sustainable Development of the United Nations: Goal 6. Ensure availability and sustainable management of water and sanitation for all. Goal 11. Make cities and human settlements inclusive, safe, resilient and sustainable. Goal 12. Ensure sustainable consumption and production patterns. Goal 13. Take urgent action to combat climate change and its impacts.
Teaching methods	Lectures: 46 hours/year. Practical classes: 0 hours/year.
Reccomended or required readings	Lecture notes on the topics of the course. Milano V. (1996). Acquedotti. Guida alla Progettazione. Hoepli, ISBN: 88- 203-2292-7. AA.VV. (1997). Sistemi di fognatura. Manuale di progettazione. CSDU - Hoepli, ISBN: 88-203-2442-3.
Assessment methods	Oral examination on the topics of the course.
Further information	Oral examination on the topics of the course.
Sustainable development goals - Agenda 2030	$lbl_legenda_sviluppo_sostenibile