



## DIPARTIMENTO JONICO IN "SISTEMI GIURIDICI ED ECONOMICI DEL MEDITERRANEO: SOCIETÀ, AMBIENTE, CULTURE"

General information			
Academic subject	Environ	mental engineering for sustainable maritime and port activities	
Degree course	Maritime-port strategic sciences		
Academic Year	2022-2023		
European Credit Transfer and		6	
Accumulation System (ECTS)			
Language	ITALIAN		
Academic calendar (starting and	ending	l semester	
date)			
Attendance		Strongly suggested	

Professor/ Lecturer		
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Department and address	Bari Dipartimento di Biologia	
Virtual headquarters		
Tutoring (time and day)	Monday 12-15 on dating	

Syllabus	
Learning Objectives	The learning objectives of the course can be summarized as follows: - Provide students with appropriate tools to interpret, assimilate and put into practice the knowledge acquired in the lessons in order to provide students with an integrated training framework with technical knowledge applicable to the protection and restoration of the environment.
Course prerequisites	
Contents	The course aims to provide students with the cognitive tools necessary for the definition and application of appropriate environmental protection techniques with particular reference to port areas. The basic legislation will be defined for the interpretation of the phenomena of pollution induced by anthropic activity, with regard to the matrices of water, air, soil and the techniques for cleaning up the territory and port areas.

	Specifically the topics examined will concern: Pollution phenomenology. Self-purification of water bodies. Supply waters. Wastewater. Wastewater treatment. Solid waste. Risk analysis. Remediation techniques for contaminated sites. Dredging. Atmospheric emissions.
Books and bibliography	Masotti L.; La Depurazione delle Acque, Ed. Calderini Collivignarelli C. Ingegneria Sanitaria Ambientale. Ed Cittàstudi
Additional materials	

Work schedule	e				
Total	Lectures		Hands on (Laboratory, working groups, seminars, field trips)	Out-of-class study hours/ Self-study hours	
Hours					
150	48				
ECTS					
6					
Teaching strat	egy			L	
Expected learn	ning outcomes				
understanding	g on:	mo tho res en	the basic sciences applied to environmental engined ost relevant applications which have a prevalent em e territory and which characterize the activities of the sponsible for environmental protection and service of vironmental design and consultancy, the realization twate interventions and works.	ployment outlet in ne bodies companiesof	
understanding on: te the the the term the term the term term the term term term term term term term ter		teo the	Ability to apply their knowledge and understanding of scientific and technological aspects using the tools provided by engineering training, in the field of basic sciences and engineering also plant engineering, to interpret the problems of environmental engineering		
Soft skills		The activ prov trair supp • Com Ab of	king informed judgments and choices student acquires the knowledge listed above t vities of the courses with theoretical and met vided for the academic subjects, in the compariso hers and in the personal study, carried out indivi- bort of tutors municating knowledge and understanding wility to apply knowledge and understanding and abi problems of varying complexity in interdisciplinary of e study sector of environmental protection, specifica	chodological content on with teachers and idually and with the lity, to the solution contexts related to	

environmental mitigation measures, techniques and technologies, the
treatment of water and waste and for environmental clean-up. This skill
will be such as to master the contents and skills acquired, demonstrating a
professional approach and the skills will be adequate to devise and
support broad-ranging arguments in the field of environmental
engineering, concerning purification, purification, atmospheric pollution,
treatment waste and remediation of contaminated sites.
Capacities to continue learning
Knowledge and understanding of the aspects of hydraulics, organic and
inorganic chemistry aimed at understanding the activities relating to the
purification, purification, management and treatment of waste and
remediation of contaminated sites; knowledge and understanding of the
regulatory and administrative, social and ethical contexts typical of
environmental engineering

Assessment and feedback	
Methods of assessment	
Evaluation criteria	<ul> <li>Knowledge and understanding         Verification of the achievement of the learning results takes place mainly             in the examination tests, oral with possible production of written work, to             which an assessment is expressed, expressed by a mark, or the             achievement of a suitability     </li> <li>Applying knowledge and understanding         Students will be able to apply knowledge by transfer into practical             experiences the content of the course     </li> <li>Autonomy of judgment         Ability to respond appropriately to technical-application problems             inherent to the aspects examined     </li> <li>Communicating knowledge and understanding         Ability to express appropriate and inherent assessments     </li> <li>Communication skills         Expression with appropriate verbal and figurative language properties     </li> <li>Capacities to continue learning         Overall mastery of content and exposure, of all aspects examined in the             course.     </li> </ul>
Criteria for assessment and attribution of the final mark	Learning is measured on the basis of the attribution of eligibility and a grade accrued on the basis of the content of the answers and the methods of exposure.
Additional information	