

General information	
Academic subject	Environmental Hygiene
Degree course	Environmental Biology
Academic Year	2021/2022
European Credit Transfer and Accumulation System (ECTS)	4
Language	English
Academic calendar (starting and ending date)	1 October 2021 - 8 January 2022
Attendance	NO

Professor/ Lecturer	
Name and Surname	Osvalda De Giglio
E-mail	osvalda.degiglio@uniba.it
Telephone	+ 39 3403409633
Department and address	Department of Biomedical Science and Human Oncology- Istituti Biologici, 3rd floor, P.zza G. Cesare n.11 Bari
Virtual headquarters	Platform Teamscode code = 6gle87e
Tutoring (time and day)	Every days except Friday

Syllabus	
Learning Objectives	To train specialists in the field of Biology applied to the knowledge of environmental, natural and man-made systems. Provide employment prospects with a responsible function in public and private structures in the context of the control and monitoring of terrestrial and marine ecosystems, coasts, parks and marine protected areas, marine and aquaculture production plants, aquariums, as well as problems concerning anthropogenic pressures on the environment.
Course prerequisites	Basic knowledge of General Hygiene
Contents	<p>Introduction to environmental hygiene. Contents of the discipline</p> <p>WATER</p> <ul style="list-style-type: none"> ☑ Surface, deep and marine waters. ☑ Water contamination: prevention, risks and health effects. Infectious diseases carried by water. ☑ Legionella and legionellosis. National and regional guidelines ☑ Water intended for human consumption and drinking water systems. Reference legislation. Methods of sampling and laboratory investigations. ☑ Mineral and bottled waters. Reference legislation and laboratory investigations. ☑ Waste water. Laboratory investigations. Reuse of waste water. <p>AIR</p> <ul style="list-style-type: none"> ☑ Airborne infectious diseases. ☑ Infections related to health care (ICA). Hand washing. ☑ Microbial contamination of the outdoor and confined environment. Methods of air and surface sampling <p>SOIL</p> <ul style="list-style-type: none"> ☑ Soil contamination and health effects. Microbial contamination of food and infectious diseases carried by food. Food control procedure according to the HACCP system <p>NOISE POLLUTION</p> <ul style="list-style-type: none"> ☑ Noise and sound. Effects on health
Books and bibliography	Barbuti S., Fara G.M., Giammanco G. IGIENE MEDICINA PREVENTIVA SANITA' PUBBLICA - EDISES 2014

Additional materials	
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Work schedule			
Total	Lectures	Hands on (Laboratory, working groups, seminars, field trips)	Out-of-class study hours/ Self-study hours
Hours			
100	29	3	68
ECTS			
4	3,6	0,4	
Teaching strategy			
Lectures with the use of Power Point and laboratory exercises. The teaching course is not delivered in e-learning mode			
Expected learning outcomes			
Knowledge and understanding on:	<ul style="list-style-type: none"> To acquire skills related to bioremediation mechanisms, main biological indicators and environmental quality indices. 		
Applying knowledge and understanding on:	<ul style="list-style-type: none"> Application of a methodological, technological and instrumental multidisciplinary approach for the control of the biotic component of the environment. 		
Soft skills	<ul style="list-style-type: none"> <i>Making informed judgments and choices</i> <ul style="list-style-type: none"> Acquisition of autonomy in the evaluation and interpretation of data relating to the quality of the environment with regard to the biotic component. <i>Communicating knowledge and understanding</i> <ul style="list-style-type: none"> Acquisition of the lexicon and terminology relating to environmental hygiene in order to understand any further information through specific bibliography as well as legislative references on environmental matters. <i>Capacities to continue learning</i> <ul style="list-style-type: none"> Acquisition of the ability to investigate and critically read the evolution of the discipline, through the consultation of texts, databases and regulatory references. 		

Assessment and feedback	
Methods of assessment	Oral interview
Evaluation criteria	<ul style="list-style-type: none"> <i>Knowledge and understanding</i> <ul style="list-style-type: none"> Knowing all the topics covered by the Course in an appropriate, correct and congruent way <i>Applying knowledge and understanding</i> <ul style="list-style-type: none"> In addition to ascertaining the acquisition of notions, the ability of a multidisciplinary approach to issues relating to the quality of the environment is assessed in order to protect and evaluate the reference indices. <i>Autonomy of judgment</i> <ul style="list-style-type: none"> Analyze the critical environmental factors that have an impact on the population with a view to one-health <i>Communicating knowledge and understanding</i> <ul style="list-style-type: none"> Ability to use the specific language of the discipline appropriately Ability to present experimental data Ability to synthesize



	<ul style="list-style-type: none">• <i>Communication skills</i><ul style="list-style-type: none">○ Knowing how to express oneself with a technical and scientific language• <i>Capacities to continue learning</i><ul style="list-style-type: none">○ Demonstrate an autonomous in-depth study of the topics carried out by consulting scientific publications specific to the sector and online databases
Criteria for assessment and attribution of the final mark	The final grade of the Environmental Hygiene exam is out of thirty. The exam is passed when the grade is greater than or equal to 18. Knowledge and understanding are essential for passing the exam. The development of transversal skills related to independent judgment, communication skills and the ability to learn allows the student to achieve a high evaluation. Honors are awarded in the event of a highly positive evaluation and are decided unanimously by the Examination Commission.
Additional information	