

Main course information	
Academic subject	Environmental Hygiene
Degree course	Environmental Biology
Degree class	LM/6
ECTS credits (CFU)	4
Compulsory attendance	YES
Teaching language	Italian
Accademic Year	2019/2020

Professor/Lecturer	
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Tutorial time/day	

Course details	Pass-fail exam/Exam with mark out of 30	SSD code	Type of class
	Environmental sector	MED/42	Lecture/workshop

Teaching schedule	Year	Semester
	II	I

Lesson type	CFU/ECTS	Lessons (hours)	CFU/ECTS lab	Lab hours	CFU/ECTS tutorial/workshop	Tutorial/workshop hours	CFU/ECTS field trip	Field trip Hours
		4	32	0	0	0	0	0

Time management	Total hours	Teaching hours	Self-study hours
	100	32	68

Academic Calendar	First lesson	Final lesson

Syllabus	
Course entry requirements	Knowledge of General Hygiene
Expected learning outcomes (according to Dublin Descriptors) (it is recommended that they are congruent with the learning outcomes contained in A4a, A4b, A4c tables of the SUA-CdS)	
<i>Knowledge and understanding</i>	Acquire skills related to bioremediation mechanisms, the main biological indicators and environmental quality indexes.
<i>Applying knowledge and understanding</i>	Application of a methodological, technological and instrumental multidisciplinary approach to control the biotic component of the environment
<i>Making informed judgements and choices</i>	Acquisition of autonomy in the evaluation and interpretation of environmental quality data with regard to the biotic component
<i>Communicating knowledge and understanding</i>	Acquisition of vocabulary and terminology related to environmental hygiene in order to understand any further information through a specific bibliography as well as legislative references on environmental matters
<i>Capacities to continue learning</i>	Acquisition of the ability to investigate and read the evolution of the discipline with a critical spirit, through the consultation of texts, databases and normative references

Syllabus	
Course content	Introduction to environmental hygiene. Contents of the discipline <ul style="list-style-type: none"> WATER Surface, deep and marine waters.

	<p>Water contamination: prevention, risks and health effects. Illnesses infective conveyed by water.</p> <p>Legionella and legionellosis. National and regional guidelines</p> <p>Water for human consumption and water purification systems. Regulations of reference. Sampling methods and laboratory investigations.</p> <p>Mineral and bottled water. Reference legislation and investigations of laboratory.</p> <p>Waste water. Laboratory investigations. Reuse of waste water.</p> <ul style="list-style-type: none"> • AIR <p>Infectious diseases carried by air.</p> <p>Health care related infections (ICA). Hand washing.</p> <p>Microbial contamination of the outdoor environment and confined. Methods of air and surface sampling</p> <ul style="list-style-type: none"> • SOIL <p>Soil contamination and health effects. Microbial contamination of food and infectious diseases carried by food. Control procedure of the foods according to the HACCP system</p> <ul style="list-style-type: none"> • NOISE POLLUTION <p>Noise and sound. Health effects</p>
Course books/Bibliography	Barbuti S., Fara G.M., Giammanco G. IGIENE MEDICINA PREVENTIVA SANITA' PUBBLICA - EDISES 2018; ISBN 9788879598279
Notes	Lecture notes and documentation made available to students
Teaching methods	Frontal lessons with the use of the Power Point and laboratory exercises
Assessment methods (indicate at least the type written, oral, other)	Oral interview
Evaluation criteria (Explain for each expected learning outcome what a student has to know, or is able to do, and how many levels of achievement there are)	In addition to ascertaining the acquisition of notions, the ability of a multidisciplinary approach to problems concerning the quality of the environment for the protection and evaluation of the reference indices is assessed.
Further information	