



**UNIVERSITÀ DEGLI STUDI
DELL'INSUBRIA**

**EDUCATIONAL REGULATIONS
OF THE DEGREE COURSE IN
PREVENTION TECHNIQUES IN THE
ENVIRONMENT AND IN THE WORKPLACE**

DESCRIPTION OF THE CURRICULUM
(TEACHING REGULATIONS OF THE COURSE))
BACHELOR'S DEGREE COURSE
IN PREVENTION TECHNIQUES IN THE ENVIRONMENT AND IN THE
WORKPLACE (L/SNT4 Technical health professions)
A.Y. 2025/2026



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Art. 1 - General information and organization

The Degree Course in Prevention Techniques in the Environment and in the Workplace (qualifying for the healthcare profession of prevention technician) (TPALL) belongs to the Class of Degrees in Technical Healthcare Professions (L/SNT4) and is activated according to the 2023 teaching regulations approved pursuant to the Interministerial Decree of 19 February 2009.

The Master's Degree in Prevention Techniques in the Environment and Workplace is a three-year programme, located in Como. It trains professionals responsible for prevention, verification, and control activities in the fields of environmental, food, public, and veterinary hygiene and safety. The training programme combines theory and practice with lectures, exercises, seminars, and professional internships. Admission is limited nationwide and requires an entrance exam. The final exam serves as a state exam qualifying for the profession.

The School of Medicine (a coordinating body established pursuant to Law 240/2010) is responsible for managing the degree programme, coordinating and streamlining the program's teaching activities. The degree programme is offered through collaboration between the Departments of Medicine and Surgery, Science and High Technology, and Theoretical and Applied Sciences.

The President /course coordinator is Prof. Andrea Spinazzè.

The relevant academic office is the School of Medicine Office, which receives appointments via the Microsoft Teams platform and responds to emails received via INFOSTUDENTI. The web application provides a communication channel with various University offices (including Student Offices, Integrated Student Services – Right to Education, Orientation and Placement Services, and Academic Offices) and is available to students and external users. This system allows you to submit questions and receive responses, attach documents, and track the status of your request.

Art. 2 - Admission to the study program

Admission requirements and access methods

To be admitted to the degree programme, students must possess a high school diploma or other qualification obtained abroad, deemed suitable under current legislation. Students must also possess or have acquired adequate initial preparation, as required by current regulations regarding admission to courses with limited enrollment at the national level. The maximum number of places for admission to the first year of the programme, appropriate to the University's teaching potential and current regulations, is set annually by the Ministry. Similarly, the Ministry defines the timing, procedures, and content of the exam through a specific ministerial decree. All information required for the admission exam is provided in the competition announcement, published on the University website on the page dedicated to limited



admissions to the Healthcare Professions.

Students who pass the admission test and rank highly within the maximum number of places established by the Ministry may enroll in the degree course.

Possession of adequate knowledge and skills is assessed through a mandatory admission test, with identical content throughout the country, used to prepare the merit ranking. The admission test, in addition to being selective, also serves as an assessment test to assess the initial knowledge required for admission in the same areas as the test defined by the Ministry of Education, Universities and Research (MUR) Decree. The Ministry annually establishes the methods and content of the admission test and the criteria for formulating the merit ranking, which are published in the Admission Notice.

Initial preparation verification methods

As required by current legislation, the entrance exam, whose content is identical throughout the country, is designed to verify adequate entry-level knowledge. Students who, despite passing the exam, do not achieve the minimum scores of 6 points in the Chemistry questions and 4 points in the Physics and Mathematics questions will be subject to specific Additional Learning Obligations (OFA), which must be completed within the first year of the course.

Students with OFA will be required to complete an e-learning remedial course to complete their initial preparation. Teachers in the relevant areas will be available to provide further information and clarification.

At the end of the program, there will be an ongoing test (OFA Remedial Test). The assignment of OFAs, how to complete them, and the dates of the remedial test are communicated to students through the institutional channels available to the Degree Program (website, student email, and exam noticeboard). The OFAs are considered fulfilled once the ongoing tests have been successfully passed.

Students who fail the OFA will not be able to take the exam for the course in which the OFA is included. Enrollment in the second year of the course in "Regular" status is conditional upon completion of the OFA by September 30th of the calendar year following the year of enrollment.

Art. 3 - Transfer procedures from other degree courses

Recognition of previous careers

Students from other degree programs who have successfully passed the admission test with limited access may submit a specific request for recognition of previous academic achievement to the Student Administration Office, along with their application for enrollment in the degree program. This request must specify the activities for which they wish to have recognition. For further details on how to apply for recognition of previous academic achievement, please refer to the University website page dedicated to the Degree Programs of the School of Medicine.

Applications for admission to years subsequent to the first

Applications for admission to years after the first, following a request for authorization, are accepted for



vacant positions in individual years of the program. For further information on the deadlines, criteria, and evaluation methods for applications, please refer to the Rector's Decree published annually on the University website. A special Commission, appointed by the Degree Programme, examines the student's academic record and submits the ranking of those admitted to years after the first for approval by the Degree Programme Council.

Art. 4 - Simultaneous enrollment in two study programs

Pursuant to Law No. 33 of April 12, 2022, "*Provisions regarding simultaneous enrollment in two higher education programs*" and subsequent Ministerial Decrees 930/2022 and 933/2022, students are permitted to simultaneously enroll in two programmes. Requests for dual enrollment will be evaluated by a dedicated programme committee, after verifying admission requirements.

Art. 5 - The educational path

The training program for the Degree Program in Prevention Techniques in the Environment and Workplace (TPALL) is structured over three years, divided into six semesters. The training program is theoretical and practical, encompassing lectures, exercises, seminars, and professional internships. The study plan is shown in Appendix 1. The first year is primarily dedicated to core training activities, while the second and third years focus on core and supplementary training activities, with the goal of training prevention technicians.

The curriculum comprises a total of 19 exams for the same number of integrated courses. The study plan includes elective courses. Specifically, 2 free-choice credits are awarded for each year of the course, for a total of 6 credits over the three-year period.

A key component of the program is the professional internship, which provides a total of 60 credits (CFU), distributed as 20 credits for each year of the program. This practical training takes place within the program's training network: primarily at health agencies (ATS Insubria), but also at university laboratories, local health and social care agencies, and other public and private organizations. Passing the internship exam each year is a prerequisite for attending the following year's internship.

There are no specific paths of excellence within the degree program.

Various seminar activities are planned. The second-year curriculum includes PROFESSIONAL SEMINARS, each worth 4 credits.

To develop transversal skills, the curriculum includes "SCIENTIFIC ENGLISH" in the first year, with the aim of aligning students with the B1 level of the CEFR. A placement test is required to assess the student's initial English level, and if students fail, an alignment course is available. "COMPUTER TECHNOLOGY FOR PROFESSIONALS" (2 credits) is also included in the first year. The course also aims to develop students' communication skills through lectures, professional workshops, and internships, with specific assessments throughout the course and in the final exam.



The University of Insubria also offers a Teaching and Learning Center, focused on developing soft skills and entrepreneurial competencies, with the issuing of Open Badges upon completion of specific training activities.

Tutor teachers are available to support students in their educational journey.

Teaching methods

The course is delivered - pursuant to Ministerial Decree 1835 of 6/12/2024 which defines the guidelines for distance learning - in so-called "conventional" mode. Therefore, it provides for the majority of teaching activities to be carried out in person and, for activities other than practical and laboratory activities, up to 1/3 of the teaching activities may be delivered online.

Attendance requirements

The degree course requires mandatory attendance.

Attendance at lectures, laboratories, elective courses, and professional internships is mandatory. To sit the exam or qualify, students must demonstrate attendance of at least 75% of the total scheduled hours for each integrated or single-subject course.

It is the responsibility of individual instructors to verify this, as they deem appropriate. At the end of the teaching activities, the instructor in charge of the course is required to communicate to the Student Affairs Office any list of students who have not received a certificate of attendance. The Student Affairs Office, unless otherwise communicated by the instructors, will assign the certificate of attendance to the students' academic records.

Elective educational activities (Italian acronym ADE), professional and in-depth activities and professional workshops require 100% attendance of the planned hours.

The internship must be completed 100%, with the possibility of recovery in the event of justified absences.

Correspondence between CFU/hours for each type of activity

The University Educational Credit (CFU) is a measure of the amount of learning, including individual study, required of a student with adequate initial preparation to acquire knowledge and skills in the learning activities required by the degree programme regulations, as indicated in Article 5 of Ministerial Decree 270/04.

Each training activity (teaching, laboratory, internship or thesis, etc.) of the degree courses corresponds to a specific whole number of training credits (CFU).

Each CFU corresponds to 25 hours of student commitment, including hours of training activities in the presence of the teacher, and hours of independent study and personal reworking, necessary to complete the training.

The credits corresponding to each training activity are acquired by the student after passing the proficiency exam or other form of proficiency assessment established in the course's teaching regulations.



Training activities / CFU:

- lectures: up to a maximum of 10 hours / CFU;
- exercises: up to a maximum of 10 hours / CFU;
- educational laboratories: up to a maximum of 20 hours / CFU;
- seminars: up to a maximum of 10 hours / CFU;
- elective teaching activity (ADE): at least 20 hours / CFU, up to a maximum of 25 hours / CFU;
- professional internship: 25 hours / CFU;

Frontal lectures : this is the main and fundamental teaching activity, the student attends the lecture given by the teacher and independently processes the content listened to.

Exercises: This activity allows students to clarify lesson content through the development of applications. No additional content is added to the lessons. Exercises are typically associated with lessons and do not exist independently. In passive exercises, application development is carried out by the instructor; in active exercises, students develop the applications under the instructor's supervision.

Educational laboratories : this is the supported activity that involves the student interacting with tools, equipment or application software packages.

Seminars : activities focused, with the active participation of the student, on the comparison and debate of topics related to the course of study.

Professional Internship: The Degree Program in Environmental and Workplace Prevention Techniques offers professional internships within partner institutions under the supervision of the Director of Professional Education. Professional internships must be completed exclusively within the training network, under the supervision of tutors selected by the degree program. The personalized relationship between student and tutor, along with the availability of high-quality and quantitatively significant equipment, makes practical work the program's strength.

Methods of verifying training activities

The degree program's assessment methods primarily include oral and/or written tests to verify achievement of the learning outcomes of the various training activities. Aptitude tests are also included, particularly in relation to laboratory activities and internships.

To take exams and other assessment tests, students must be up-to-date with their tuition and fees, have passed any preparatory exams, have attended classes, and have all required attendance certificates. Registration for exams or assessment tests is completed exclusively online. Upon online registration, the information system checks the student's academic record to ensure that their exam registration matches their study plan.

Any prerequisites and/or barriers

The prerequisites and/or barriers for the Degree Course in Prevention Techniques in the Environment and the Workplace are linked to the Professional Internship.

For the purposes of admission to the course exams, students are required to meet the following prerequisites:



THE EXAM MUST BE TAKEN:	BEFORE TAKING THE EXAM:
PROFESSIONAL INTERNSHIP 1	PROFESSIONAL INTERNSHIP 2
PROFESSIONAL INTERNSHIP 2	PROFESSIONAL INTERNSHIP 3

Passing the professional internship exam each year is a prerequisite for attending the professional internship the following year. Those who fail to pass the exam will have to repeat the internship in whole or in part.

Failure to complete the required attendance will result in enrollment as a "repeat student." To enroll as a "regular student" in subsequent years, students must have obtained all attendance certificates for the previous academic year and have passed the required preparatory exams for each academic year by December 31st. Students who have not yet passed the preparatory exams will be enrolled as a "conditional student" until December 31st, with the risk of being demoted if they fail to pass the exams. Enrollment in the second year as a "regular student" is conditional upon completion of the Additional Learning Obligations (OFA) by September 30th of the calendar year following enrollment.

To be admitted to the final exam, students must have earned all credits for the educational activities included in the study plan and passed all exams and qualifications, including those related to the internship. Prerequisites therefore specifically concern the internship programme, while passing exams from previous years and attendance are necessary for progression in the programme and admission to the final exam.

Art. 6 - Graduation exams

To be admitted to the final exam, students must have earned all the credits for the educational activities planned in the study plan and required by the academic regulations, and have passed all the relevant exams, including the aptitude tests and those relating to the internship.

The final exam for the Degree Programme in Environmental and Workplace Prevention Techniques (TPALL) is a state exam that qualifies students to practice as environmental and workplace prevention technicians. It carries 7 credits.

The final exam consists of two evaluation moments:

1. **Practical test:** the student must demonstrate that he or she has acquired the theoretical-practical and technical-operational knowledge and skills specific to the specific professional profile.
2. Writing a **thesis** and its **dissertation:** the thesis must be written individually on a specific topic and aimed at demonstrating the candidate's acquired ability to address professional issues in an original and independent manner. The dissertation consists of presenting the salient and relevant elements of the thesis.

The thesis evaluation will be based on the following criteria:



- level of detail of the work carried out
- critical contribution from the student
- accuracy of the scientific methodology adopted to develop the topic.

Final grade 110/110, with the possibility of awarding honors

The final degree score will be made up of the following:

- weighted average of the grades obtained in curricular exams in relation to 110;
- sum of the marks obtained in the practical test and in the thesis discussion.

Honors may be awarded to a candidate who achieves a score greater than or equal to 110 and who has obtained at least two honors in the curricular exams taken.

Upon graduation, a Diploma Supplement is issued. This informative report accompanies the official qualification and describes the nature, level, context, content, and status of the studies undertaken and completed by the student. It is issued in both Italian and English. The purpose of the document is to provide independent data for the international transparency of qualifications (diplomas, degrees, certificates, etc.) and to enable equitable academic and professional recognition, promoting student mobility. The Diploma Supplement complies with the Europass standard.

The graduation session calendar is defined at the national level by decree of the Ministry of University and Research in agreement with the Minister of Health, and usually takes place in two annual sessions:

October-November

March-April.

To view the specific dates and times of the final exam sessions, please access the Student Administration Web Services of the University of Insubria. Information regarding the degree exam for the School of Medicine is also available on the dedicated page of the University website. Please refer to the Regulations for the Final Exam of the Degree Programme in Environmental and Workplace Prevention Techniques for complete information.

ATTACHMENTS

Annex 1 – Study Plan



Annex 1 – Study Plan

SCHEDULED TEACHING - 2025/2026 COHORT

Scheduled teaching refers to the set of courses planned for the entire study programme, which must be taken by all students enrolling in the current academic year (enrollment cohort) in order to complete their studies and obtain their qualification.

YEAR 1					
Name TEACHING	Name MODULE	SSD	TYPE OF TRAINING ACTIVITY (TAF)*	ECTS- C	HOURS and type of activity **
CHEMISTRY AND BIOCHEMISTRY	CHEMISTRY	CHEM/06	A	3	30 L
	BIOCHEMISTRY	BIO/10	A	3	30 L
MATHEMATICS, PHYSICS AND RADIATION PROTECTION	MATHEMATICS	MAT/04	A	2	20 L
	RADIATION PROTECTION	MED/36	B	1	10L
	APPLIED PHYSICS	FIS/07	A	2	20L
LIFE SCIENCES	ELEMENTS OF ECOLOGY	BIO/07	A	2	20L
	ELEMENTS OF MICROBIOLOGY	MED/07	A	3	30L
	BIOLOGY AND GENETICS	MED/03	A	2	20L
ANATOMY AND PHYSIOLOGY	HUMAN ANATOMY	BIO/16	A	2	20L
	PHYSIOLOGY	BIO/09	A	2	20 L
STATISTICS AND EPIDEMIOLOGY	MEDICAL STATISTICS	MED/01	A	2	20 L
	EPIDEMIOLOGY	MED/42	A	3	30 L
	EPIDEMIOLOGICAL METHODOLOGY FOR RESEARCH	MED/50	B	2	20 L
SCIENTIFIC ENGLISH	SCIENTIFIC ENGLISH	L-LIN/12	E	2	20 L
FIRST AID	FIRST AID	MED/41	A	3	30 L
IT FOR THE PROFESSION	IT FOR THE PROFESSION	ING- INF/05	F	2	20 L
PROFESSIONAL INTERNSHIP 1		MED/50	B	20	500 T
AT THE STUDENT'S CHOICE		NN	D	2	20 L
II YEAR					
Name TEACHING	Name MODULE	SSD	TYPE OF TRAINING ACTIVITY (TAF)*	ECTS- C	HOURS and type of activity **
WORK-RELATED PATHOLOGIES	GENERAL PATHOLOGY	MED/04	A	1	10 L
	RESPIRATORY SYSTEM DISEASES	MED/10	B	2	20 L
	LOCOMOTOR SYSTEM PATHOLOGIES	MED/33	B	2	20 L
	OCCUPATIONAL MEDICINE	MED/44	B	2	20 L
LAW, ORGANIZATION AND PROFESSIONAL TRAINING	PROFESSIONAL LAW	IUS/07	B	2	20 L
	ORGANIZATION OF THE PROFESSION	MED/50	B	3	30 L



	ELEMENTS OF TEACHING FOR VOCATIONAL TRAINING	M-PED/03	B	2	20 L
ENVIRONMENTAL CHEMISTRY AND HUMAN HEALTH RISK	ENVIRONMENTAL CHEMISTRY	CHEM/12	B	2	20 L
	ENVIRONMENTAL HYGIENE	MED/44	B	3	30 L
ENVIRONMENTAL IMPACTS	ENVIRONMENTAL HEALTH ENGINEERING	ICAR/03	B	2	20 L
	ENVIRONMENTAL IMPACT OF ENERGY SYSTEMS	ING-IND/11	B	2	20 L
	ENVIRONMENTAL ASSESSMENTS AND ENVIRONMENTAL LAW	IUS/02	C	2	20 L
PREVENTION AND SAFETY TECHNIQUES IN THE HEALTHCARE SECTOR	PREVENTION AND SAFETY TECHNIQUES IN THE HEALTHCARE SECTOR	MED/50	B	6	60 L
WORKPLACE SAFETY LABORATORY	WORKPLACE SAFETY LABORATORY	MED/50	F	1	20 Lab
LABORATORY FOR COLLECTION AND MONITORING TECHNIQUES	LABORATORY FOR COLLECTION AND MONITORING TECHNIQUES	MED/50	F	1	20 Lab
LABORATORY ANALYSIS TECHNIQUES	LABORATORY ANALYSIS TECHNIQUES	MED/50	F	1	20 Lab
PROFESSIONAL SEMINARS	PROFESSIONAL SEMINARS	MED/50	F	4	40 SEM
PROFESSIONAL INTERNSHIP 2	PROFESSIONAL INTERNSHIP 2	MED/50	B	20	500 T
AT THE STUDENT'S CHOICE		NN	D	2	20 L

III YEAR

Name TEACHING	Name MODULE	SSD	TYPE OF TRAINING ACTIVITY (TAF)*	ECTS-C	HOURS and type of activity **
TOXICOLOGY	PHARMACOLOGY	BIO/14	B	2	20 L
	ENVIRONMENTAL AND OCCUPATIONAL TOXICOLOGY	MED/44	B	3	30 L
	FORENSIC TOXICOLOGY	MED/43	B	2	20 L
GENERAL AND APPLIED HYGIENE	HYGIENE, PREVENTIVE MEDICINE AND PUBLIC HEALTH	MED/42	B	3	30 L
	ONE HEALTH – HEALTH AND ENVIRONMENT AREA	MED/42	B	2	20 L
	FOOD AND NUTRITION HYGIENE	MED/42	B	2	20 L
	FOOD SAFETY INSPECTION TECHNIQUES	MED/50	B	2	20 L
ENVIRONMENTAL AND OCCUPATIONAL HYGIENE	BASIC ELEMENTS – RISK ASSESSMENT	MED/44	B	2	20 L
	TECHNOLOGICAL CYCLES AND RELATED RISKS	MED/44	B	2	20 L
	RISK ASSESSMENT TECHNIQUES	MED/44	B	2	20 L
	INSPECTION AND SURVEILLANCE TECHNIQUES – WORKPLACE SAFETY	MED/50	B	2	20 L
ENGINEERING	FIRE-FIGHTING SYSTEMS	ICAR/03	C	4	40 L
			B	2	20 L
	CHEMICAL PLANTS	ING-IND/25	A	3	30 L
PROFESSIONAL INTERNSHIP	PROFESSIONAL INTERNSHIP 3	MED/50	B	20	500 T



3					
AT THE STUDENT'S CHOICE		NN	D	2	20 L
FINAL TEST	FINAL TEST	//	E	7	//

**** TAF:** **a)** basic training **b)** characterizing training **c)** similar and integrative training **d)** autonomous choices of the student **e)** final exam and foreign language **f)** other activities - art. 10 c. 5 lett. d. **** HOURS** and type of activity **L** : lesson **Ese** : exercise **Lab** : laboratory **SEM** : seminar **St** : internship **StE** : internship at a foreign structure **T** : traineeship **U** : field trip



Annex 2 – Summary of the objectives of the courses (at least the compulsory ones)

Mandatory courses Common CV

Name TEACHING	Name MODULE	Year	Learning objectives – summary taken from the syllabus
CHEMISTRY AND BIOCHEMISTRY	CHEMISTRY	1	Acquire basic knowledge of general, organic, and environmental chemistry, and understand the structure and metabolism of major biomolecules, cellular energy processes, and fundamental metabolic pathways in relation to physiological conditions.
	BIOCHEMISTRY	1	
MATHEMATICS, PHYSICS AND RADIATION PROTECTION	MATHEMATICS	1	Critically represent and interpret univariate and bivariate data using appropriate measures and graphs, estimate a regression line, conduct hypothesis tests on coefficients, and use the statistical software R.
	RADIATION PROTECTION	1	Acquire basic theoretical knowledge of radiation physics and radiation protection, enabling the student to read and understand the most recent international recommendations, including Euratom Directive 59/2013.
	APPLIED PHYSICS	1	The module provides knowledge and tools useful for understanding the physical foundations of waves and radiation, with particular attention to areas relevant to prevention in living and working environments. Upon completion, students will be able to describe phenomena in mechanics, mechanical, electromagnetic, and ionizing waves, and the structure of matter. They will be able to explain the mechanisms of interaction between waves/radiation and matter, illustrating their medical and industrial applications. They will also be able to correctly present data and measurements, solve simple applied physics problems, and critically analyze the physical principles of the technologies used.
LIFE SCIENCES	ELEMENTS OF ECOLOGY	1	The concepts, principles, and laws of basic ecology are proposed to assess the alterations to biogeochemical cycles and ecosystem self-regulation systems due to human activities. The aim is to provide diagnostic and restoration tools for compromised ecosystems within the framework of existing legislation and acquired ecological knowledge.
	ELEMENTS OF MICROBIOLOGY	1	To provide fundamental knowledge of the morphology, physiology, and classification of the main microorganisms of medical and environmental interest, with particular attention to pathogenicity mechanisms, infection transmission, antibiotic resistance, and the main microbiological prevention and control techniques, in order to develop a useful basis for understanding biological risks in healthcare and workplace settings.
	BIOLOGY AND GENETICS	1	To provide students with basic knowledge of cell structure and function, fundamental biomolecular structures, and the genetic mechanisms essential for the transmission of hereditary information, with particular attention to the molecular processes involved in DNA replication, transcription, and translation, and the principles of Mendelian and molecular genetics, in order to understand the biological basis of physiological and pathological processes relevant to the healthcare professions.
ANATOMY AND PHYSIOLOGY	HUMAN ANATOMY	1	To provide a basic understanding of the morphological organization of the human body, with particular attention to the structure of the systems and apparatuses of greatest relevance to the preventive healthcare professions, in order to promote an understanding of functional anatomy and the main clinical correlations.
	PHYSIOLOGY	1	To provide essential knowledge of the functioning of the main organs and systems of the human body, with particular reference to homeostatic mechanisms and vital functions, in order to understand the physiological bases useful for the prevention and protection of health in the living and working environments.
STATISTICS AND	MEDICAL STATISTICS	1	Provide students with the foundations of statistics applied to medicine, with a



EPIDEMIOLOGY			particular focus on techniques for analyzing and interpreting healthcare data. Students will acquire skills in using statistical tools to evaluate and interpret the results of medical studies, including hypothesis testing, variability analysis, and methods for analyzing univariate and bivariate data .
	EPIDEMIOLOGY	1	To provide students with the basic knowledge and methodological tools to understand and apply the principles of descriptive and analytical epidemiology, with particular attention to measuring the frequency and distribution of diseases, assessing health determinants, and critically interpreting epidemiological studies in the preventive and healthcare fields.
	EPIDEMIOLOGICAL METHODOLOGY FOR RESEARCH	1	To provide students with the fundamental skills for designing and analyzing epidemiological studies applied to health research. The course aims to develop the ability to identify appropriate methodologies for data collection and analysis, including the main study techniques (case-control, cohort, cross-sectional) and the principles of assessing risk factors and health outcomes .
SCIENTIFIC ENGLISH	SCIENTIFIC ENGLISH	1	The course aims to develop students' scientific language skills, with a focus on reading, comprehension, and production of scientific texts in English. Upon completion of the course, students will be able to understand scientific articles, write technical reports, and effectively communicate the results of scientific research in an international professional context.
FIRST AID	FIRST AID	1	The course aims to provide students with the theoretical and practical knowledge necessary to deal with medical emergencies and apply first aid techniques effectively. Upon completion of the course, students will be able to recognize the signs and symptoms of emergency situations, correctly perform cardiopulmonary resuscitation (CPR), manage trauma and injuries, and respond to medical emergencies until professional help arrives.
IT FOR THE PROFESSION	IT FOR THE PROFESSION	1	The course aims to provide students with the fundamental IT skills needed to effectively use digital tools in their professional practice. Upon completion of the course, students will be able to use productivity software, manage and analyze data, apply online search and information management techniques, and use document management systems to support professional activities in the healthcare and technical fields.

Name TEACHING	Name MODULE	Year	Learning objectives – summary taken from the syllabus
WORK-RELATED PATHOLOGIES	GENERAL PATHOLOGY	2	The course aims to provide basic knowledge of the general mechanisms of disease, with particular attention to inflammatory, degenerative, immunopathological, and neoplastic processes, as well as the main mechanisms of cellular adaptation. Upon completion of the course, students will be able to understand the etiopathogenetic basis of major pathological changes, interpret the body's biological responses to harmful agents, and recognize key concepts useful for prevention and risk assessment in healthcare and the environment.
	RESPIRATORY SYSTEM DISEASES		The course provides essential knowledge of bronchial asthma, chronic obstructive pulmonary disease (COPD), and diffuse interstitial lung diseases, with particular emphasis on definitional, epidemiological, pathogenetic, clinical, and diagnostic aspects, including the differential diagnosis between asthma and COPD. Students will also acquire the fundamentals for recognizing the main idiopathic interstitial lung diseases and sarcoidosis, including an understanding of clinical, radiological, and classification aspects, particularly from an etiological perspective.
	LOCOMOTOR SYSTEM PATHOLOGIES		The course aims to provide fundamental knowledge of the main musculoskeletal disorders, including etiology, clinical features, diagnosis, and general treatment principles. Particular attention will be paid to conditions of greatest relevance in the preventative and occupational settings, such as degenerative, inflammatory, and biomechanical overload disorders, to enable students to recognize their functional impact and health implications in



			occupational and environmental contexts.
	OCCUPATIONAL MEDICINE		The course aims to provide students with basic knowledge of the main occupational risks and related pathologies, as well as health prevention and promotion measures in the workplace. It will cover the fundamentals of occupational physiopathology, current legislation regarding worker health protection, and the concepts of health surveillance and fitness for work, with particular attention to the role of the occupational physician and the interaction with other prevention professionals.
	PROFESSIONAL LAW		The module aims to provide students with a basic understanding of the regulatory framework governing the practice of the healthcare profession of Environmental and Workplace Prevention Technician. Specifically, the legislative frameworks related to the definition of the professional profile, areas of expertise, ethics, and professional responsibility will be explored. The course also includes knowledge of the main employment contracts in the healthcare sector, workplace safety regulations, and the organization of the National Health Service.
LAW, ORGANIZATION AND PROFESSIONAL TRAINING	ORGANIZATION OF THE PROFESSION	2	The module aims to provide students with fundamental knowledge of the organization of healthcare services and the institutional context in which Environmental and Workplace Prevention Technicians operate. The course will explore the organizational models of healthcare organizations, essential levels of care (LEA), the functions of Prevention Departments, and the interactions between professionals in multi-professional contexts. Particular attention will be paid to the organization of preventive, inspection, and training activities in relation to healthcare policies and territorial planning.
	ELEMENTS OF TEACHING FOR VOCATIONAL TRAINING		The module aims to provide students with a comprehensive overview of the organization of the Italian healthcare system, with particular emphasis on the institutional, organizational, and functional role of the Environmental and Workplace Prevention Technician. The organizational models of prevention services, the principles of healthcare planning, essential levels of care (LEA), and accreditation and quality systems will be analyzed. Multidisciplinary and interprofessional organizational dynamics, responsibilities associated with professional practice, and the role of professionals in managing preventive and training activities will also be explored.
ENVIRONMENTAL CHEMISTRY AND HUMAN HEALTH RISK	ENVIRONMENTAL CHEMISTRY	2	The course aims to provide the basic knowledge necessary to understand the chemical principles underlying environmental phenomena. After an introduction to fundamental chemical concepts applicable to the environmental context, the course addresses the characteristics of the main compartments (water, soil, and air), the types of historical and emerging pollutants, and their fate in the environment. The course also presents the main monitoring techniques and pollution mitigation strategies, with the aim of providing useful tools for assessing and managing environmental impact.
	ENVIRONMENTAL HYGIENE		The main objective of the course is to provide a solid foundation for understanding the main chemical processes that occur in the environment and the phenomena resulting from human-induced alteration of environmental processes, including the risks that environmental contamination, primarily chemical, but also physical and biological, can pose to human health.
ENVIRONMENTAL IMPACTS	ENVIRONMENTAL HEALTH ENGINEERING	2	The course contributes to the training of Prevention Technicians by providing tools to analyze the interactions between human activities and the environment, identify impact mitigation strategies, and understand the regulatory framework. Divided into three modules—Environmental Health Engineering, Environmental Impact of Energy Systems, Environmental Assessments, and Environmental Law—the course addresses waste and water management, energy technologies, and key regulations (EIA, SEA, Seveso). Upon completion, students will be able to assess environmental impacts and apply concepts of the circular economy and sustainable
	ENVIRONMENTAL IMPACT OF ENERGY SYSTEMS		
	ENVIRONMENTAL ASSESSMENTS AND ENVIRONMENTAL LAW		



		development.
PREVENTION AND SAFETY TECHNIQUES IN THE HEALTHCARE SECTOR	2	The course aims to provide theoretical knowledge and operational tools for assessing and managing risks in healthcare facilities, with a particular focus on worker safety, the prevention of healthcare-associated infections, and the management of healthcare waste. Students will acquire skills in the hygiene and sanitation monitoring of healthcare environments, the analysis of healthcare processes and technologies, and the application of current regulations regarding safety, hygiene, and prevention in hospitals and social healthcare settings.
WORKPLACE SAFETY LABORATORY	2	The workshop aims to provide practical and applied skills for managing workplace safety. Students will acquire skills in risk assessment, emergency management, and the application of preventative measures through the use of technical tools and specific regulations. Workshop activities will include practical exercises, simulations, and case study analysis, with the aim of applying theoretical concepts to real-world situations.
LABORATORY FOR COLLECTION AND MONITORING TECHNIQUES	2	The laboratory aims to provide students with practical skills in performing sampling and environmental monitoring techniques. Students will learn how to use instruments and methods for sampling air, water, soil, and surfaces, as well as procedures for analyzing chemical, physical, and biological parameters. Through hands-on activities, the laboratory will develop operational and management skills in data collection and analysis, which are essential for risk assessment and the protection of health and safety in the workplace and the environment.
LABORATORY ANALYSIS TECHNIQUES	2	The course aims to provide students with fundamental knowledge of ISO standards and risk management principles applicable to organizations. Students will become familiar with the UNI EN ISO 9000, UNI EN ISO 9001:2015, and UNI 31000:2018 standards, understanding the principles of risk management and how to apply risk analysis techniques. Furthermore, they will be introduced to the construction of organizational documents and the use of indicators to describe and monitor business processes.
PROFESSIONAL SEMINARS	2	Professional seminars aim to deepen and apply theoretical knowledge through direct interaction with professionals and industry experts. Students participate in seminars and practical activities that address advanced topics and case studies related to the profession of Environmental and Workplace Prevention Technician. The goal is to foster the integration of theoretical skills with real-world operational needs, stimulating the development of professional skills specific to the workplace.



Name TEACHING	Name MODULE	Year	Learning objectives – summary taken from the syllabus
TOXICOLOGY	PHARMACOLOGY	3	Provide students with basic knowledge of drugs, their mechanisms of action, and their main therapeutic and adverse effects. Students will acquire skills in understanding pharmacokinetic and pharmacodynamic principles, as well as in assessing drug efficacy and safety.
	ENVIRONMENTAL AND OCCUPATIONAL TOXICOLOGY		To provide students with knowledge of the toxicological effects of chemicals and physical agents on the environment and human health, particularly in occupational settings. Students will learn the mechanisms of toxicity, risk factors, and methodologies for assessing exposure to chemical and physical agents in the workplace.
	FORENSIC TOXICOLOGY		Provide students with the skills necessary to understand the principles and applications of toxicology in forensic settings. Students will acquire knowledge of the effects of toxic substances on the human body, with a focus on poisonings and medicolegal issues, and will learn the analytical methodologies used for the collection and analysis of biological samples in forensic settings.
GENERAL AND APPLIED HYGIENE	HYGIENE, PREVENTIVE MEDICINE AND PUBLIC HEALTH	3	To provide students with fundamental knowledge of disease prevention, health promotion, and the management of health risks in populations. Key topics related to environmental hygiene, infectious diseases, public health, and health policies will be explored in depth.
	ONE HEALTH – HEALTH AND ENVIRONMENT AREA		Provide students with an integrated view of the "One Health" concept, which recognizes the interconnectedness of human, animal, and environmental health. Students will learn how environmental factors, zoonotic diseases, and interactions between humans, animals, and the environment influence public health.
	FOOD AND NUTRITION HYGIENE		To provide students with fundamental knowledge of food hygiene and nutrition, with particular attention to food safety
	FOOD SAFETY INSPECTION TECHNIQUES		Provide the skills to perform food safety inspections and control activities. Students will learn current regulations, facility compliance assessment techniques, food risk identification, and auditing, proposing appropriate corrective actions.
ENVIRONMENTAL AND OCCUPATIONAL HYGIENE	BASIC ELEMENTS – RISK ASSESSMENT	3	Provide a foundation for understanding risk assessment in the environmental and workplace contexts. Students will acquire the skills to identify and analyze risk factors, apply assessment methodologies, and adopt preventative measures to protect health and safety in living and working environments.
	TECHNOLOGICAL CYCLES AND RELATED RISKS		Provide the skills to analyze risks associated with various industrial technological cycles. Students will acquire knowledge of production processes, potential hazards associated with machinery, materials, and operations, and the preventive and protective measures to be adopted to ensure safe workplaces.
	RISK ASSESSMENT TECHNIQUES		Provide the tools to identify, analyze, and assess workplace risks. Students will learn methods and techniques for qualitative and quantitative risk assessment, with a focus on occupational safety, health, and hygiene, and the application of preventative and corrective measures.
	INSPECTION AND SURVEILLANCE TECHNIQUES – WORKPLACE SAFETY		Provide the skills necessary to carry out inspection and surveillance activities in the workplace, aimed at ensuring compliance with safety regulations. Students will learn inspection techniques, risk analysis, report writing, and the implementation of corrective measures to prevent accidents and occupational illnesses.
ENGINEERING	FIRE-FIGHTING SYSTEMS	3	Provide students with the technical skills to design, install, operate, and maintain fire protection systems in compliance with safety regulations. Students will learn the operating principles of active fire protection systems, risk assessment techniques, and the importance of preventative



			measures to ensure the safety of workplaces and public spaces.
	CHEMICAL PLANTS		Provide students with the fundamental skills needed to understand the operation, design, and management of industrial chemical plants. Students will acquire knowledge of the main industrial chemical processes, safety management, and risk analysis, with particular attention to current regulations and prevention and control techniques in chemical industrial environments.