



# UNIVERSITÀ DEGLI STUDI DI PALERMO

<b>DEPARTMENT</b>	Promozione della Salute, Materno-Infantile, di Medicina Interna e Specialistica di Eccellenza "G. D'Alessandro"		
<b>ACADEMIC YEAR</b>	2020/2021		
<b>BACHELOR'S DEGREE (BSC)</b>	HEALTHCARE ASSISTANCE		
<b>INTEGRATED COURSE</b>	HEALTH PROMOTION FOR WORK - INTEGRATED COURSE		
<b>CODE</b>	17382		
<b>MODULES</b>	Yes		
<b>NUMBER OF MODULES</b>	2		
<b>SCIENTIFIC SECTOR(S)</b>	MED/44, MED/36		
<b>HEAD PROFESSOR(S)</b>	VERSO MARIA GABRIELLA	Ricercatore	Univ. di PALERMO
<b>OTHER PROFESSOR(S)</b>	VERSO MARIA GABRIELLA GAGLIARDO CESARE	Ricercatore Ricercatore a tempo determinato	Univ. di PALERMO Univ. di PALERMO
<b>CREDITS</b>	6		
<b>PROPAEDEUTICAL SUBJECTS</b>			
<b>MUTUALIZATION</b>			
<b>YEAR</b>	3		
<b>TERM (SEMESTER)</b>	2° semester		
<b>ATTENDANCE</b>	Mandatory		
<b>EVALUATION</b>	Out of 30		
<b>TEACHER OFFICE HOURS</b>	<b>GAGLIARDO CESARE</b> Wednesday 10:00 - 12:00 Sezione di Scienze Radiologiche - Dipartimento di Biomedicina, Neuroscienze e Diagnostica Avanzata. <b>VERSO MARIA GABRIELLA</b> Monday 12:00 - 13:00 Sezione di Medicina del Lavoro		

**DOCENTE:** Prof.ssa MARIA GABRIELLA VERSO

<b>PREREQUISITES</b>	Have basic knowledge of chemistry, physics, biology; know the main medical, surgical and trauma diseases and to have basic knowledge in the legal field.
<b>LEARNING OUTCOMES</b>	<p>Knowledge and ability to understand Knowing the determinants and major health risk factors and diseases in a professional environment and the interaction between man and his work environment. Knowing the etiology and natural history of accidents at work and occupational diseases. Learn the fundamentals of biology and radiobiology. Acquire the ability to check in advance the technical justification, optimization and limitation of exposure.</p> <p>Capacity to apply knowledge and understanding Knowing how to properly evaluate health problems and be able to advise workers considering physical, psychological, social, cultural and employment factors. Learn about the appropriate use of human resources, the significance of diagnostic interventions, the therapies and technologies dedicated to health care. Know the main determinants of health and disease, such as lifestyle, genetic factors, demographic, environmental, socio-economic, psychological and cultural factors that may originate the determinism of occupational diseases; be aware of the important role of the determinants of health and disease, and capacity to know how to take adequate preventive and protective measures against occupational diseases and accidents at work, maintaining and promoting the health of the individual worker and of the community that operates in workplaces. Understand the importance of a collective interventions responsibility in health promotion in the workplace, that requires close cooperation with the workers themselves and a multidisciplinary approach, including health professionals and also intersectoral collaboration. Knowing how to understand the health surveillance data of workers, comparing them to local data, regional and national, demography and epidemiology in health decisions. Knowing the basics in order to participate, to the extent applicable, to the correct decisions made by physicians, when necessary, in the issues related to the prevention and care of health in the workplace. Take the most appropriate radiation protection techniques in order to ensure the protection of patients, exposed workers, population and territory.</p> <p>Making judgments Acquiring skills to integrate knowledge as well as to understand the judgments of suitability to the specific job function, for the purposes of health promotion in the workplace. For optimal dose, know how to evaluate and decide on professional acts involving the use of ionizing radiation sources for diagnostic, therapeutic as well as in applied research.</p> <p>Enable communication Knowing how to communicate clearly conclusions to specialist and non-specialists (workers), as well as the knowledges and rationale underpinning these. Inform individuals undergoing diagnostic investigations for images or radiotherapies of technology, technical, and protectionist risks.</p> <p>Capacity Learning Being able to collect, organize and interpret correctly the health and biomedical informations from different resources and databases available. Knowing how to use the technology associated to information and communications as a right support to physicians in diagnostic practices, therapeutic and preventive and for surveillance and monitoring of the health status. Knowing the general principles of pathology with references to the relevant parts to the effects of ionizing radiations.</p>
<b>ASSESSMENT METHODS</b>	<p>The student must answer at least four questions posed orally, on all parties covered by the program, with reference to the recommended texts. Final assessment aims to evaluate whether the student has knowledge and understanding of the topics in the program and explained in class, has acquired jurisdiction to interpret and independent judgment of concrete cases. The pass mark will be reached when the student shows knowledge and understanding of the subjects at least in general terms, and has minimal application skills in order to solve concrete cases; must too own capacity exhibition and argumentative as to allow the transmission of his knowledge to the examiner. Below this threshold, the examination will result insufficient. Most, however, with his ability argumentative and expository the student will be able to interact with the examiner, and how much more his knowledge and ability applications will go into detail the discipline of verification, most evaluation will be positive. The assessment is carried out of thirty.</p> <p>ECTS grades Grade descriptors A – A+ Excellent Excellent knowledge of teaching contents; students should show high analytical and synthetic capabilities and should be able to apply their</p>

	<p>knowledge to solve highly complex problems.</p> <p>B Very good Very good knowledge of the teaching contents and excellent language control; students should show analytical and synthetic skills and be able to apply their knowledge to solve problems of medium and, in some cases, even higher complexity.</p> <p>C Good Good knowledge of teaching contents and good language control; the students should be able to apply their knowledge to solve problems of medium complexity.</p> <p>D Satisfactory Average knowledge of the teaching contents, in some cases limited to the main topic; acceptable ability to use the specific discipline language and independently apply the acquired knowledge.</p> <p>E Sufficient Minimum teaching content knowledge, often limited to the main topic; modest ability to use the subject specific language and independently apply the acquired knowledge. F Fail Lack of an acceptable knowledge of the main teaching content knowledge; very little or no ability to use the specific subject language and apply independently the acquired knowledge.</p>
<b>TEACHING METHODS</b>	The teaching will be based on the delivery of lectures in plenary.

<p><b>MODULE</b></p> <p><b>PROTECTION AND RADIATION PROTECTION</b></p> <p><i>Prof. CESARE GAGLIARDO</i></p>	
<b>SUGGESTED BIBLIOGRAPHY</b>	
Dispense del docente Cittadini. Diagnostica per immagini e radioterapia. Ediz. illustrata Copertina flessibile – 30 giu 2015	
<b>AMBIT</b>	10363-Scienze della prevenzione e dei servizi sanitari
<b>INDIVIDUAL STUDY (Hrs)</b>	45
<b>COURSE ACTIVITY (Hrs)</b>	30
<b>EDUCATIONAL OBJECTIVES OF THE MODULE</b>	
Acquire basic knowledge on ionizing and non-ionizing radiation, health problems related to radiation exposure and relative legislative principles that protect workers exposed to radiation-associated risks. Acquire radiation exposure prevention methods. Acquire patient management methods in a radiology or nuclear medicine unit.	

### SYLLABUS

Hrs	Frontal teaching
8	Knowledge of fundamentals of physics, characterization of ionizing radiation, health problems related to exposure to ionizing radiation
2	Non-ionizing radiation: physical characteristics and application in diagnostic imaging.
8	Principles of Radiobiology
2	Contrast media: classification and characteristics; clinical applications; adverse reactions and related measures. Patient preparation and management.
8	Risks related to exposure to radiation and protective devices. Examples and discussion.
2	Italian Health legislation with particular regard to the principles of applicability of radiation protection for workers exposed to radiation-related risks. Assessment of risks related to radiation exposure.

**MODULE  
OCCUPATIONAL MEDICINE**

*Prof.ssa MARIA GABRIELLA VERSO*

**SUGGESTED BIBLIOGRAPHY**

- F. Tomei et al: Manuale di Medicina del Lavoro. Piccin editore, 2018
- L. Ambrosi, V. Foa' - Trattato di Medicina del Lavoro seconda edizione (UTET Ed. 2003)
- G. Scansetti-P.G. Piolatto- G. Perrelli: "Medicina del Lavoro", Edizione Minerva medica, Torino, 2000
- D. Lgs 81/2008 e successive integrazioni e modifiche

<b>AMBIT</b>	10363-Scienze della prevenzione e dei servizi sanitari
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<b>INDIVIDUAL STUDY (Hrs)</b>	45
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<b>COURSE ACTIVITY (Hrs)</b>	30
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**EDUCATIONAL OBJECTIVES OF THE MODULE**

The objectives are to present, analyze and discuss the technical and practical methods of prevention, describe the health surveillance and control activities for the improvement of workers' health. It also intends to provide training geared to support the evaluation and resolution of public health problems related to the occurrence of health events in the workplace.

**SYLLABUS**

<b>Hrs</b>	<b>Frontal teaching</b>
30	- Methodological approach in occupational health: 1 hour - Classification of risks in the workplace: 1 hour - Concepts of primary prevention, secondary and tertiary education in the workplace: 1 hour. - Clinical framework for the main occupational diseases caused by physical, chemical, biological: 15 hours. - Biological Monitoring: defining individual susceptibility: 2 hours. - Training in Occupational Medicine: 2 hours. - Legislation on prevention of occupational diseases and accidents at work: 2 hours. - Elements of insurance against accidents and occupational diseases: 2 hours. - Health effects of work activities with risks related to the organization of work (shift work, posture, MMC, stress): 2 hours. - Findings of suitability to the specific job: correlation between risk, clinical and instrumental data, environmental and legislative references: 2 hours.