



# COURSE DETAILS "INTEGRATED COURSE OF FORENSIC AND OCCUPATIONAL MEDICINE" SSD MEDS-25/A, MEDS-25/B

# DEGREE PROGRAMME: MEDICINE AND SURGERY (P11) COORDINATOR: PROF. IVO IAVICOLI ACADEMIC YEAR 2024-2025

# **GENERAL INFORMATION – TEACHER REFERENCES**

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Faculty	Position	Scientific	Phone	Reception	E-mail
		Fields			
Ivo lavicoli	Full Professor	Occupational Medicine	2430	By appointment; bldg 13, floor 3	ivo.iavicoli@unina.it
Luca Fontana	Associate Professor	Occupational Medicine	2049	Monday 8,30-10,30; bldg 13, floor 3	luca.fontana@unina.it
Veruscka Leso	RTD-B	Occupational Medicine	4763	By appointment; bldg 13, floor 3	veruscka.leso@unina.it
Massimo Niola	Full Professor	Forensic Medicine	3008	By e-mail appointment, bldg. 20, floor 1	masniola@unina.it
Mariano Paternoster	Associate Professor	Forensic Medicine	3461	By e-mail appointment, bldg. 20, floor 1	mariano.paternoster@unina.it
Maria Pieri	Associate Professor	Forensic Medicine	3474	By e-mail appointment, bldg. 20, floor -1	maria.pieri@unina.it
Emanuele Capasso	RTD-B	Forensic Medicine	3357	By e-mail appointment, bldg. 20, floor 1	emanuele.capasso@unina.it

GENERAL INFORMATION about the course <u>TEACHING LANGUAGE</u>: ENGLISH <u>CHANNEL</u>: N/A <u>YEAR OF THE DEGREE PROGRAMME</u>: V <u>SEMESTER</u>: II CFU: 6

**REQUIRED PRELIMINARY COURSES** 

None

#### **PREREQUISITES**

For a proper understanding of the topics discussed in the Integrated Course, the Student should be familiar with the anatomy and physiology of the different organs and systems. This is preparatory to understand the basis for the assessment and evaluation of injuries and impairments of criminal or civil interest and the impact that different occupational risk factors may have on the organism. Students should have acquired knowledge on the principles of toxico-kinetics and toxico-dynamics, such as the absorption/distribution/metabolism/excretion pathway, in order to achieve a suitable comprehension of the methodological and technical foundations dealing with forensic and occupational toxicology investigations, and a deep insight into the cellular and molecular mechanisms underlying the main occupational diseases and the homeostatic responses activated in response to disease states.

#### **LEARNING GOALS**

Through the theoretical and practical notions provided from the course, the Student should develop critical thinking skills and should be capable to solve forensic and occupational medicine problems. At the end of the course, the Student should fluently discuss all the learned notions, using the most appropriate terminology and should also be capable to communicate, with a simple, but comprehensive and accurate language, the main information about ethical-deontological, forensic and occupational medicine issues. The course aims to learn operational skills necessary to concretely apply forensic and occupational medicine knowledge to judicial and clinical cases and to promote the ability to fully use the methodological tools presented during the training activity.

### **EXPECTED LEARNING OUTCOMES**

The Student should acquire knowledge concerning the basic principles of the forensic toxicological analysis; the correct interpretation of toxicological data acquired on biological samples considering also the influencing role exerted by the age, general physiological and pathological states; the appraisal and assessment in forensic medicine of living being and corpse; the establishment of time and cause of injury or death, the circumstances surrounding death in order to interpret trauma, and to determine if death resulted from an intentional act or natural disease, how an injury occurred, and if the facts established through scientific investigation are consistent with the story provided by the victim or other party.

The Student should acquire knowledge concerning the occupational medicine history; the core competencies, skills and professional activities of the occupational physicians and other figures and actors of the prevention system; the basic principles of prevention; the impact of different occupational risk factors on workers' health outcomes; the diagnoses of common work related diseases and conditions; the interface of occupational medicine practice and health systems.

#### Knowledge and understanding

The Student should acquire knowledge on the main forensic and occupational medicine issues that may arise in the medical profession, and acquire skills on how to discuss and communicate these issues. The course aims to provide the Student with the knowledge and basic methodological tools necessary to analyze forensic and occupational medicine issues.

# Applying knowledge and understanding

The Student should be able to independently evaluate aspects relating to the specific problems of forensic and occupational medicine and propose appropriate solutions. The Student should acquire communicative skills finalized to explain to non-expert people the general principles and fundamental problems of forensic and occupational medicine. The Student should be able to propose solving strategies of problems of forensic and occupational medicine nature correctly using the technical terminology. The Student should be encouraged to familiarize with the terminology of the forensic and occupational medicine. The Student should be able to critically and independently update and/or expand his/her knowledge from scientific texts and articles specific to the forensic and occupational medicine. The Student should be able to gradually acquire the ability to attend specialistic seminars, conferences, master's degrees in the field of forensic and occupational medicine.

# **COURSE CONTENT/SYLLABUS**

#### **Occupational Medicine**

- INTRODUCTION TO THE OCCUPATIONAL MEDICINE. General principles and history of Occupational Medicine. Evolution of legislative framework on the protection of health and safety in the workplaces. The figures of the prevention system: the employer, the prevention and protection service in workplaces, the workers' safety representative, the occupational physician, and the workers. The risk assessment and management process.
- OCCUPATIONAL RISK FACTORS and RELATED OCCUPATIONAL DISEASES: PHYSICAL RISK FACTORS. Noise. Mechanical vibrations. Manual handling of heavy loads. Video Display Units. Ionizing radiations.
- OCCUPATIONAL RISK FACTORS and RELATED OCCUPATIONAL DISEASES: CHEMICAL RISK FACTORS. Metals. Solvents. Others.
- OCCUPATIONAL RISK FACTORS and RELATED OCCUPATIONAL DISEASES: BIOLOGICAL RISK FACTORS. Viruses. Bacteria. Protozoa. Fungi.
- PSYCHOSOCIAL RISK FACTORS and MENTAL HEALTH in the WORKPLACES.

#### Forensic Medicine

- LEGAL MEDICINE. The legal aspects of practice of medicine. The legal responsibilities of the physician with reference to those arising from physician-patient relationship (medical negligence, consent, rights and duties of doctors, serious professional misconduct). The evaluation of autonomous decision making by impaired persons. Identification and forensic osteology.
- FORENSIC PATHOLOGY. Thanatology (Study of Death). Postmortem Changes. Autopsy. Violent Asphyxial Deaths.
- FORENSIC TRAUMATOLOGY. Injuries and their Medicolegal Considerations. Forensic Ballistics. Thermal Injuries. Electrical and Lightning Injuries.
- CLINICAL FORENSIC MEDICINE and FORENSIC PSYCHIATRY. The medical examination and assessment of the living.
- FORENSIC TOXICOLOGY. Poison definition and strategies for a correct identification and interpretation of data. Chain of custody and quali/quantitative analysis. Gender differences in the human response to xenobiotics. About marijuana legalization.

TEACHING ACTIVITIES				
Week	Day / Hour	Lessons/Seminars	Teacher	
1° 3-7 March 2025	Friday 7 March 13.00-14.00	General principles and history of Occupational Medicine	lavicoli	
	Friday 7 March 14.00-15.00	Evolution of the legislative framework on the protection of health and safety in the workplaces	lavicoli	
	Friday 7 March 15.00-16.00	Introduction to forensic toxicology: poison definition and criteria for poisoning diagnoses	Pieri	
	Friday 7 March 16.00-17.00	Chain of custody. Characteristics of biological matrices and time- window	Pieri	
	Friday 14 March 13.00-14.00	The figures of the prevention system: duties and responsibilities	lavicoli	
2° 10-14 March 2025	Friday 14 March 14.00-15.00	The risk assessment and management process	lavicoli	
	Friday 14 March 15.00-16.00	Acquisition of the toxicological data	Pieri	
	Friday 14 March 16.00-17.00	Interpretation of positive and negative toxicological data in biological samples from deceased subjects	Pieri	
3° 17-21 March	Friday 21 March	Chemical risk factors and related occupational diseases	Leso	

4°     Leso       4°     Leso       4°     Informed Consent     Paternoster       15.00-16.00     Friday 21     March       March     Informed Consent     Paternoster       15.00-16.00     Friday 21     Malpractice and Liability     Paternoster       March     Defensive Medicine     Paternoster     Leso       4°     Friday 28     March     Leso       13.00-14.00     Friday 28     Leso     Leso       March     Chemical risk factors and related occupational diseases     Leso       14.00-15.00     Friday 28     The role of gender in the biological response to xenobiotics     Niola       15.00-16.00     Friday 28     March     Niola       15.00-17.00     Friday 4     April     Biological risk factors and related occupational diseases     Leso       13.00-14.00     Friday 4     April     Biological risk factors and related occupational diseases     Leso       14.00-15.00     Friday 4     April     Biological risk factors and related occupational diseases     Leso       13.00-14.00     Friday 11     April
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May Physical risk factors and related occupational diseases Fontana
13.00-14.00
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10° May Physical risk factors and related occupational diseases Fontana
5-9 May 2025 14.00-15.00
Friday 09
May Gunshot and Blast Wounds Capasso
15.00-16.00

	May		
	16.00-17.00		
	Friday 16		
	May	Physical risk factors and related occupational diseases	Fontana
	13.00-14.00		
	Friday 16		
11°	May	Physical risk factors and related occupational diseases	Fontana
11 12-16 May	14.00-15.00		
2025	Friday 16		
2025	May	Thanatology	Capasso
	15.00-16.00		
	Friday 16		
	May	Autopsy	Capasso
	16.00-17.00		
	Friday 23		
	May	Blunt Force Trauma	Capasso
	13.00-14.00		
	Friday 23		
12°	May	Pointed, Sharp, and Semi-sharp Force Trauma	Capasso
19-23 May	14.00-15.00		
2025	Friday 23		
2025	May	Forensic Osteology	Niola
	15.00-16.00		
	Friday 23		
	May	Forensic Osteology	Niola
	16.00-17.00		
	Friday 30		
	May	Asphyxia	Capasso
	13.00-14.00		
	Friday 30		
13°	May	Water-Related Deaths	Capasso
26-30 May 2025	14.00-15.00		
	Friday 30		Paternoster
	May	Disaster Medicine	
	15.00-16.00		
	Friday 30		
	May	Mass Casualty Incidents	Paternoster
	16.00-17.00		

# **READINGS/BIBLIOGRAPHY**

# **Occupational Medicine:**

J. Ladou, R. Harrison. Current Diagnosis and Treatment: Occupational and Environmental Medicine. McGraw-Hill Medical. 6<sup>th</sup> Ed. 2021.

# Forensic Medicine:

J A.C. Moffat, M. D. Osselton, B. Widdop (Editors). Clarke's analysis of drugs and poisons. Pharmaceutical Press, 2011. Reinhard B. Dettmeyer Marcel A. Verhoff Harald F. Schütz. Forensic Medicine. Fundamentals and Perspectives. Springer, 2014.

#### **TEACHING METHODS**

The course will be based on frontal teaching (lectures with the support of power point presentations) providing 5 CFU and clinical clerkships providing another 1 CFU.

#### **EXAMINATION/EVALUATION CRITERIA**

#### a) Exam type:

Exam type			
written and oral	Х		
only written			
only oral			
project discussion			
other			

In case of a written exam, questions refer to: (*)	Multiple choice answers	X
questions refer to. ( )	Open answers	
	Numerical exercises	

(\*) multiple options are possible

#### b) Evaluation pattern:

A written test with multiple choice questions on Occupational Medicine listed in the program, followed by an oral examination on all the topics of the Integrated Course. A score higher than a threshold value in the written test of Occupational Medicine is necessary to be admitted to oral examination