



FORENSIC MEDICINE AND TOXICOLOGIC CHEMISTRY

Enrollment year	2018/2019
Academic year	2020/2021
Regulations	DM270
Academic discipline	MED/43 (LEGAL MEDICINE)
Department	DEPARTMENT OF MOLECULAR MEDICINE
Course	BIOMEDICAL LABORATORY TECHNIQUES
Curriculum	PERCORSO COMUNE
Year of study	3°
Period	(01/10/2020 - 22/01/2021)
ECTS	2
Lesson hours	16 lesson hours
Language	Italian
Activity type	ORAL TEST
Teacher	PREVIDERE' CARLO (titolare) - 1 ECTS MORINI LUCA - 1 ECTS
Prerequisites	The students should be appropriately prepared in topics such as chemistry and genetics.
Learning outcomes	The main topic of the course deals with the knowledge of the theory and lab bases useful for the correct implementation of forensic toxicological and genetic analyses dealing with the search of volatile and non-volatile organic compounds in biological samples and with the genetic characterisation of biological stains and paternity testing samples
Course contents	<p>The course is aimed to describe the forensic toxicological and genetic lab approaches.</p> <p>At the end of the class, students shall prove to be able to deal with the forensic toxicological analyses according to sensitivity, selectivity, accuracy and precision. Different extraction/purification procedures will be described as well as the qualitative-quantitative analyses of volatile</p>

	and non volatile organic compounds in biological samples. Students will prove to be able to describe the methodological approaches used in forensic genetic analyses for a correct interpretation of DNA identification casework and paternity or kinship cases.
Teaching methods	Frontal lectures and discussion of lab casework
Reccomended or required readings	1)Elisabetta Bertol - ANALITICA TOSSICOLOGICA - Aspetti tecnici, interpretativi, giuridici e deontologici. I Edizione, 2011. Società Editrice Esculapio. Acquistabile on-line al prezzo di euro 23,00 2)Ricci Ugo, Previderè Carlo, Fattorini Paolo, Corradi Fabio -LA PROVA DEL DNA PER LA RICERCA DELLA VERITA' - Giuffrè Ed. 2006
Assessment methods	Oral or written exam, depending on the number of students.
Further information	The final grade is the grade point average of the two topics (forensic toxicology and forensic genetics)
Sustainable development goals - Agenda 2030	\$Ibl legenda sviluppo sostenibile