



## TOXICOLOGICAL ANALYSIS (6 CREDITS) - TWO MODULES

<b>Enrollment year</b>	2021/2022
<b>Academic year</b>	2021/2022
<b>Regulations</b>	DM270
<b>Academic discipline</b>	BIO/14 (PHARMACOLOGY)
<b>Department</b>	DEPARTMENT OF BIOLOGY AND BIOTECHNOLOGY "LAZZARO SPALLANZANI"
<b>Course</b>	EXPERIMENTAL AND APPLIED BIOLOGY
<b>Curriculum</b>	Bioanalisi
<b>Year of study</b>	1°
<b>Period</b>	1st semester (01/10/2021 - 14/01/2022)
<b>ECTS</b>	6
<b>Lesson hours</b>	48 lesson hours
<b>Language</b>	Italian
<b>Activity type</b>	WRITTEN TEST
<b>Teacher</b>	PASTORIS ORNELLA (titolare) - 3 ECTS DOSSENA MAURIZIA - 3 ECTS
<b>Prerequisites</b>	=
<b>Learning outcomes</b>	=
<b>Course contents</b>	<p>Part 1. General principles of toxicology: history and scope of toxicology; mechanisms of toxicity; risk assessment; absorption, distribution and excretion of toxicants; biotransformation of xenobiotics; toxicokinetics. Non-organ directed toxicity: chemical carcinogenesis; genetic toxicology; developmental toxicology. Toxic agents: toxic effects of pesticides; toxic effects of metals; toxic effects of solvents and vapors. Food toxicology.</p> <p>Part 2. Role and functions of toxicological laboratory. Main toxicology tests on different biological matrices. Principal voluntary and involuntary intoxication from: drugs, chemical agents, animal toxins and mushrooms. Qualitative and quantitative research of xenobiotics. Methods of</p>

	analysis in industrial toxicology. Examples of applications.
<b>Teaching methods</b>	=
<b>Reccomended or required readings</b>	=
<b>Assessment methods</b>	=
<b>Further information</b>	=
<b>Sustainable development goals - Agenda 2030</b>	<a href="#">The goals</a>