

16. CLINICAL APPLICATIONS OF MASS SPECTROMETRYⁱ

Level I

Department of Experimental and Clinical Biomedical Sciences "Mario Serio"

Course coordinator

Giovanna Danza

STUDY PLAN

Subject	Academic Discipline	CREDITS
General principles of mass spectrometry		12
1. General principles of mass spectrometry and instruments	CHIM/06	6
2. Interpretation of mass spectra	AGR/13	3
3. Coupling with chromatographic systems Applications in proteomics, metabolomics, lipidomics and imaging	CHIM/08	3
Quantitative mass spectrometry on complex matrices		12
1. Principles of chromatography and purification of substances from complex mixtures	CHIM/08	6
2. Principles of quantitative analysis in mass spectrometry	MED/46	6
Clinical Applications of Mass Spectrometry		18
1. Applications in endocrinology	MED/46	3
2. Applications in pharmacology	MED/46	3
3. Applications in toxicology and forensic medicine	MED/46	3
4. Applications in newborn screening	BIO/12	3
5. Applications in microbiology	MED/46	3
6. Quality Control and accreditation in the clinical laboratory	MED/46	3
Total credits for face-to-face classes		42
Internship		9
Final examination		9
Total		60

ⁱ This document is a translation of the form A.2 relating to the study plan of the course attached to the Decree of the Deputy number 873 (record 158006) of 25th of July 2022, drafted in Italian and issued on the Master | Didattica | Università degli Studi di Firenze | UniFI and which therefore constitutes the only official document. This English translation cannot be used for legal purposes and has the sole purpose of supplying information in English on the content of the public notice.