UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Training IIb

2627-2-I0302D045-I0302D062M

Aims

During the internship, the student, supported by internship assistants and/or tutors, must:

KNOWLEDGE AND UNDERSTANDING
Learn how to use the laboratory information system (LIS)

APPLICATION OF KNOWLEDGE AND UNDERSTANDING
Demonstrate the ability to apply workplace safety regulations, respect privacy regulations, and understand and comply with company regulations
Learn how to perform and evaluate instrument calibrations
Learn how to perform and evaluate Internal and External Quality Control criteria
Acquire the management of daily and periodic instrument maintenance

MAKING JUDGMENT SKILLS
Learn to recognize interferences that may compromise results and the corrective actions to be taken
Learn to recognize and manage instrument problems that may compromise the analytical phase

COMMUNICATION SKILLS
Introduce oneself to the laboratory environment and acquire Interpersonal skills, demonstrating the ability to interact appropriately with the various professionals with whom they interact.

LEARNING ABILITY
Familiarize with various diagnostic technologies and apply the theoretical foundations of different analytical techniques.
Ability to critically evaluate one's own practice and continuously improve one's skills through feedback from tutors/internship assistants

Contents

During the second-year internship, students acquire the basic principles for managing various diagnostic technologies, experience performing and verifying instrument calibrations, and learn how to manage internal and external quality controls and the corrective actions to be implemented in uncontrolled situations. Finally, internships learn to manage instrument maintenance and practice some simple technical interventions in the event of instrument failure.

Detailed program

1. Occupational safety standards, privacy regulations, and company regulations
2. Laboratory Information System (LIS)
3. Performance and evaluation of instrument calibrations
4. Performance and evaluation of Internal and External Quality Control
5. Management of daily and periodic instrument maintenance
6. Management of instrument failures

Prerequisites

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Teaching form

Practical professionalizing activities

Textbook and teaching resource

The teaching material will be provided during the practical activities

Semester

First and second semester

Assessment method

1. Preparation of a written report by the student regarding the internship experience.
2. Evaluation conducted by tutors and internship assistants using the specific worksheets for the academic

year.
3. Oral interview with questions related to the student's report and the practical activities completed during the internship + a practical dilution test

The final grade is expressed out of 30.

Office hours

By appointment

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING