UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Internship Orientation

2627-1-F0902D006

Aims

This activity aims to provide information for in-progress orientation, useful for the student to approach the work in the research laboratory and make an informed choice of thesis project.
Knowledge and understanding - The student will have knowledge of the educational offerings of the internship and stage period for the preparation of the thesis, and the educational paths for conducting the thesis abroad
Applying knowledge and understanding - By the end of the proposed laboratory activities, the student will have acquired practical skills in the use of simple laboratory instrumentation and in the area of technologies used in research laboratories.
Making judgements - By the end of the activities, the student will be able to make an informed choice of the area of interest in which to conduct the thesis project.
Communication skills - The student will have the ability to compare and communicate constructively with faculty and researchers to obtain operational instructions and information of interest.
Learning skills - By the end of the activities, students will be able to prepare themselves to choose an internship consistent with the professional profile they want to acquire.

Contents

- Ongoing orientation: how to present the study plan, presentation of the second-year courses offered by the master degree program, presentation of internationalization programs, opportunities for external internships/internships, guidance to degree achievement.
- Practical laboratories for knowledge and use of instrumentation and laboratory techniques
- Attendance in freely chosen scientific seminars
- Voluntary access to research laboratories available at the School of Medicine and Surgery

Detailed program

The course aims to provide students with ongoing orientation, declined in the following ways:

- description of how to present the study plan;
- presentation of internationalization programs (Erasmus, Exchange and Double Degree);
- opportunities for internships outside the University;
- guidance on the degree-granting process: from the presentation of educational projects, to the submission of degree applications, to guidelines for writing the dissertation;
- basic notions for the correct use of the instruments commonly used in a research laboratory, such as variable volume micropipettes, serological pipettes and automatic pipettors for liquids dispensation, vortex, bench centrifuges, magnetic stirrers, analytical balance, with practical exercises of use (2 hours);
- basic notions on some techniques used in research laboratories, specifically SDS-PAGE and centrifugation (8 hours);
- volunteer work in a research laboratory (30 hours);
- participation in seminars chosen by the student and proposed by the faculty (Internationalization Week, NeuroMI congress)

Prerequisites

None

Teaching form

The Internship is carried out using different teaching modes:

- 7 (2-hour) lectures with in-presence erogative mode;
- mandatory 1 (2-hour) laboratory exercise with in-presence interactive mode;
- mandatory 2 (4-hour) lab exercises with interactive in-presence mode;
- 30 hours in laboratory with interactive in-presence mode on individual student's voluntary basis;
- on individual student's choice of attendance at in-presence seminars or streaming webinars.

Textbook and teaching resource

- Materials presented during the erogative lectures
- Protocols used during the practical labs
  Materials will be made available through the e-learning platform

Semester

First semester

Assessment method

Certification of course attendance: frequency is achieved by attending at least 80% of the total 80 hours scheduled, including guidance meetings, mandatory and voluntary laboratories, and participation in in seminars of individual choice.

Office hours

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Sustainable Development Goals

GOOD HEALTH AND WELL-BEING | QUALITY EDUCATION | GENDER EQUALITY