UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Public Health and Sanitary Management

2627-3-I0302D019

Aims

Knowledge and Understanding
The Integrated Course in “Public Health and Healthcare Management” provides students with knowledge and understanding of the fundamental principles of clinical epidemiology and evidence-based medicine; the main determinants of health and disease; strategies for disease prevention, health promotion, and risk control; the organization of the National Health Service; the ethical, professional, and regulatory principles governing healthcare professions and the protection of patients; as well as the fundamentals of health economics and healthcare service organization, with particular emphasis on the appropriate use of professional and technological resources.

Applying Knowledge and Understanding
Upon completion of the Integrated Course in “Public Health and Healthcare Management”, students should be able to interpret the results of epidemiological and clinical studies relevant to professional practice; apply the principles of hygiene and preventive medicine in different healthcare settings; work in compliance with ethical standards, professional codes of conduct, and professional responsibilities; contribute to the organization and operation of healthcare services in their respective professional fields; and use quality indicators and monitoring tools to assess the effectiveness and appropriateness of professional activities and healthcare processes.

Contents

the goal of the course is to provide the student with the cultural basis for the acquisition of full professional competence, according to regulation of the specific professional title: biomedical laboratory technician (DM 745/94)

Detailed program

Principle, concepts and methods of public health , evolution of the concept of health, demographic and epidemiologic trends, fundamentals of epidemiology, primary, secondary and tertiary prevention tools, public health and healthcare systems, finance and provision of public health services.

Tools of health and healthcare planning.

Specifically, demographic and epidemiologic trends will be presented and sources of data will be discussed. The use of epidemiologic methods for planning health services

Introduction to inference. Point and interval estimation: sample distribution (of the mean) and confidence intervals. Hypothesis testing: logic of the statistical testing, system of hypothesis, p-value, type I and II errors, power of the test and relation between statistical testing and confidence interval. Different types of tests: tests on means and proportions, paired tests and test for association. Measures of effect for binary and time to event endpoints.

Definitions of Ethics and Deontology and their practical applications. Ethics and technology: the new need of a technological world: the responsibility principle; Communication and Informed consent; Ethics dilemmas and limit-cases; professional identity and personal world: contrasts, relationships, problems

Organizational models, planning and control toools, given under a multidiciplinary approach, applications to diagnostic

Prerequisites

Teaching form

Lectures and exercises

Textbook and teaching resource

The Teachers will provide educational materials

Semester

second semester

Assessment method

written and oral tests

Office hours

On appointment requested by e-mail

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING | QUALITY EDUCATION