



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Igiene, Medicina del Lavoro e Statistica Medica

1920-1-I0101D003

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#### Aims

#### Contents

#### Detailed program

GENERAL AND APPLIED HYGIENE  
Hygiene generalities and field of action

Causes of illness and risk factors

Infectious diseases

Prophylaxis vaccine

Chemoprophylaxis

Disinfection and sterilization

LABOR MEDICINE

General Occupational Medicine

The preventive system in the workplace

Legislative Decree 81/08: reference regulatory framework.

Obligations and responsibilities within the preventive system.

I Personal protective equipment

The VDT / PC risk

Manual handling of patients

The biological risk

The chemical risk  
Preventive laws protecting pregnancy  
Notions on health surveillance pursuant to Legislative Decree 230/95.

#### ELECTRONIC AND COMPUTER BIOENGINE

Outline of radiation physics  
Conventional X-ray radiology  
Computed tomography (CT) with X-rays  
Conventional Nuclear Medicine  
Single photon emission tomography (SPECT)  
Positron emission tomography (PET)  
Ultrasound

#### DIAGNOSTICS FOR IMAGES AND RADIO PROTECTION

Exposure modalities in Radiodiagnostics and Nuclear Medicine  
General principles of radiation protection  
Radiation protection of operators  
Classification of radiation damage  
Radiation protection of the patient  
Roles and responsibilities of health personnel  
Exposure of patients of childbearing age  
Displays of pediatric patients  
Non-occupational exposures of informed and voluntary persons who assist patients

#### MEDICAL STATISTICS

Quantitative-qualitative variables  
Statistical series and series  
Graphic representation of a distribution  
Position indexes of a distribution  
Distribution indexes of a distribution  
Dispersion diagrams  
Indices of association between two quantitative characters  
Reliability of a measure, random and systematic errors  
Accuracy and precision indexes  
The definition of Gaussian density  
Approximation of a histogram by the Gaussian distribution  
The definition of standardized Gaussian density and its use.

### **Prerequisites**

### **Teaching form**

Frontal Lessons

### **Textbook and teaching resource**

Fowler J., Jarvis P., Chevannes M.: Statistica per le professioni sanitarie, EdiSES

Ambrosi, Foà: Trattato di Medicina del Lavoro, UTET.

Per Igiene i testi di riferimento saranno suggeriti dai singoli Docenti di Polo

## **Semester**

1 Year - 1 Semester

## **Assessment method**

Type of exam: **Written with questions closed to multiple answer**

Evaluation exam: **Final Grade**

## **Office hours**

On appointment

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