UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Economics of Biotechnology Companies

2021-2-E0201Q076

Aims

The course will focus on the analysis of the main issues related to the business administration.

Knowledge and understanding:

This course offers students the basic knowledge of business economics and business administration in general and in Biotech companies, in particular relating to business systems, to different degrees of economic combinations and value-creating activities.

Applying knowledge and understanding:

Students will be able to identify and analyze the conditions of existence of companies as well as the different systems, economic and business combinations present in them. Through the comparison of cases, students will gain the knowledge needed to provide effective solutions for companies.

Making judgements.

Students must have the ability to analyze the main problems related to business administration, ie business strategy, governance, management and understanding the method of construction and the correctness of accounting records relating to individual management phenomena and the consistency of the same with the purpose of the business administration.

Communication skills.

Students must be able to clearly communicate the acquired knowledge, the underlying logic and the application

methods also to non-specialist; they must know and have adequate knowledge of business-economic terminology.

Learning skills

The student will be able to integrate acquired knowledge to further studies in economics.

Contents

The course will focus on the analysis of the main issues related to the business administration in general and in biotech companies: business management, administration and control, organization, related, in particular, to Biotechnological companies

Detailed program

THE COMPANY AND ITS OPERATION

The concept of business and institute

Business administration, institutions

The operating conditions of the institutions

Institution/Company structure and its operation

The institution/company system

Relations between institutions/companies

The structure of companies

The institutional set-up

Factors that influence the reconciliation of interests

Government and non-profit institutions: functions and roles in the creation of social value

Institutions/Companies in the biotechnology sector

BUSINESS COMBINATIONS

Business operations

Business operations types

Value-generating activities

Primary activities

Support activities - in particular research and development activities

START UP E BUSINESS PLAN

Strategic management: overview

Start up companies and Business Plan

VALUES, MEASUREMENTS AND INFORMATION

Financial statements: information purposes

Finaicla statements information

The regulatory framework

Financial statements

Operations and values measurements

Accounting methodology and tools

Accounting of business operations

Determination of values

Determination of income and capital

PLANNING, PROGRAMMING AND CONTRO SYSTEM

Planning, programming and control system

Break even point

HUMAN RESOURCES AND ORGANIZATIONAL STRUCTURE

Organization system

Organizational structures

Simple structure

Functional structure

Divisional structure

Matrix structure

New structures

Project structure. The figure of the project manager

Human Resource Management

Prerequisites

Background: None

Specific prerequisites: none

General prerequisites: Students can take the exams of the second year after passing the examinations of Introductory Biology, General and inorganic Chemistry, Mathematics, and Foreign Language.

Teaching form

During the Covid-19 emergency period, lessons will take place in a mixed mode, ie synchronous and asynchronous lessons. All lessons will be videotaped.

In general, lectures supported by slides.

Group works/reports that revise the topics introduced through the lectures.

Tutorials (36 h): supplementary classroom activities to help students in their study.

Teaching language: italian.

Textbook and teaching resource

Learning material (slides) is available at the e-learning platform of the course.

Recommended textbook (Italian language):

"Economia aziendale" Corso di laurea Triennale in Biotecnologie – Professoressa Francesca Magli

edited by Alberto Nobolo

Pearson, 2018

Semester

First semester

Assessment method

The exam consists of a written examination and an oral part. The test consists of 20 multiple choice questions and

two open questions; a mark higher than 18 allow the student to take the oral exam. The oral exam focusses on a case study assignment, through the application the "Business Plan" theory explained during the course. The case study can be analyzed as a team.

Office hours

Contact hours: Monday, h 11.00 - 12:00