

Academic Year: (2024 / 2025)

Review date: 26-04-2024

Department assigned to the subject: Materials Science and Engineering and Chemical Engineering Department

Coordinating teacher: MERCADER UGUINA, JESUS RAFAEL

Type: Compulsory ECTS Credits : 3.0

Year : 1 Semester : 1

REQUIREMENTS (SUBJECTS THAT ARE ASSUMED TO BE KNOWN)

It is recommended to possess basic knowledge on prevention of occupational risks.

OBJECTIVES

- * * Know the fundamentals of the health labour and the research of diseases.
- * Acquire the General knowledge on the different systems of measurement and control of the various exhibitions.
- * Have the ability to evaluate processes and work methods, from the point of view of possible generation and issuance of agents and other factors potentially harmful in order to eliminate exposure or reduce it to acceptable levels.
- * Be able to define the dangerousness and possible systems of protection against the risk of contamination by chemical agents. Know the specific measuring systems.
- * Be able to define the dangerousness and possible systems of protection against the risk of contamination by physical agents. Know the specific measuring systems.
- * Be able to define the dangerousness and possible systems of protection against the risk of contamination by biological agents. Know the specific measuring systems.
- * Identify the agents and factors that may have an impact on the environment and understand the need of integrating the practice of occupational health with protection of the environment.

DESCRIPTION OF CONTENTS: PROGRAMME

1. Occupational Health: Concepts and basic objectives of Industrial Hygiene. Definition and identification of environmental pollutants of occupational origin and their effects on health. Definition and classification of occupational diseases.
2. Chemical agents: Definition and general concepts. Identification. Classification, packaging and labeling criteria. Toxicology. Routes of entry, risks derived from exposure and damage to health.
3. Physical agents: noise, vibrations and radiations. Definition and general concepts. Identification, damage to health and risks derived from exposure.
4. Biological agents: definition and general concepts. Routes of entry, risks derived from exposure and damage to health. Identification and classification of biological agents.

LEARNING ACTIVITIES AND METHODOLOGY

* Master classes in which the fundamental conceptual content that the student must acquire are developed. Therefore in addition to advise the necessary manuals and a specific bibliography for the specific subjects to be provided at the beginning of the semester, will be provided in advance the student materials prepared by the teacher to the deeper issues and a better follow-up of the explanations. These materials will serve to introduce the debate and discussion topics that have more interest for both teacher and the students themselves.

ASSESSMENT SYSTEM

% end-of-term-examination:	60
% of continuous assessment (assignments, laboratory, practicals...):	40

*The assessment of continuous academic performance will make up 40% of the grade. To do this, we will carry out case studies, workshops, fieldwork and seminars in which the student's skill in the

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% of continuous assessment (assignments, laboratory, practicals...):	40

management of documentation, the ability to solve and apply quick, correct and effective responses presented to him and the skill in finding solutions will be assessed.

The final exam will be a test on specific questions and will account for 60% of the grade. The exam will be of four alternatives to choose only one correct answer. It will consist of a minimum of 40 questions and a maximum of 50. Blank questions do not add or subtract points. The student who has not passed the evaluation of the continuous academic performance must take a practical exam whose grade will be 50% of the final grade of the course.

PERCENTAGE WEIGHT FINAL EXAM: 60%

PERCENTAGE WEIGHT CONTINUOUS EVALUATION: 40%