

Academic Year/course: 2021/22

## 26787 - Occupational medicine

### Syllabus Information

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**Academic Year:** 2021/22

**Subject:** 26787 - Occupational medicine

**Faculty / School:** 104 - Facultad de Medicina

**Degree:** 304 - Degree in Medicine

**ECTS:** 5.0

**Year:** 5

**Semester:** First semester

**Subject Type:** Optional

**Module:**

### 1. General information

### 2. Learning goals

### 3. Assessment (1st and 2nd call)

### 4. Methodology, learning tasks, syllabus and resources

#### 4.1. Methodological overview

The methodology followed in this course is oriented towards the achievement of the learning objectives. A wide range of teaching and learning tasks are implemented, such as lectures, practice sessions, tutorials, assessment tasks, autonomous work and study.

Professor's lectures, ICT tools (Information and Communication Technologies as networks, use of online platforms to get access to Occupational Diseases cases with Virtual Patients, online software, computer, projector, and e-learning systems.

Students will learn by using e-learning strategies and on-line materials that have been elaborated as a result of different Scientific Projects supported by the European Commission. Those materials and strategies are being actually in use for Occupational Medicine teaching in a number of European Universities.

One of that online materials is considered as a common basic core that should be taught to all Medical students in every European Country. In 2016 this material named "Emutom" was laureated by the Directorate General of Education of the European Commission because was considered very successful and highly extended his use around Europe and outside EU.

Problem-solving methodology and Virtual patient material will be used by students using an online platform that depends on Ludwig Maximilian University and the University of Zaragoza. This learning system was also awarded, in this case by Consejo Social and Universidad de Zaragoza in 2008.

#### Important:

Although there will be a number of lectures offered in a presential way, attendance to them is voluntary. This means that the learning process can be successfully completed entirely online.

#### 4.2. Learning tasks

The course includes the following learning tasks:

- **ACTIVITY 1:** Professor's Lectures. CREDITS: 8 hours in the classroom
- **ACTIVITY 2:** Practice sessions. Problems solving, Virtual patients and resolution of cases (workers/patients with occupational diseases or work-related health problems). CREDITS: from 15 h to 24h (online)

- ACTIVITY 3: Practical activities. Descriptive review, updating & state of art of specific topics on Occupational Health. CREDITS: 45hs (online)
- ACTIVITY 4: Tutorship. Personal guidance & students? interview. Students can ask for it both individually or in a group. CREDITS:
- ACTIVITY 5: Student?s assessment. Evaluation of both theoretical and practical skills. CREDITS: 2 hours
- ACTIVITY 6: Student?s autonomous work (study, seminar preparation, data analysis, information retrieval, and further reading content). CREDITS: 55 hours.

### 4.3. Syllabus

The course will address the following topics:

- Topic 1. Introduction to Occupational Medicine.
- Topic 2. Effects of work on health and occupational hazards:
  - 2.A. Toxic and Chemicals agents.
  - 2.B. Biological agents.
  - 2 C. Physical agents.
  - 2.D. Ergonomic risks.
  - 2.E. Psycho-social and mental health risks at work.
- Topic 3. Health Surveillance
  - 3.A. Health Surveillance Protocols and Guides.
- Topic 4. Health Promotion in the workplace.
  - 4.A. What any doctor should know regarding the adaptation of work to the individual and what is called "fitness for work" and "workability".
- Topic 5. Work-related Health Problems.
  - 5.A. Work accidents, occupational diseases and diseases related to work. Identification of work-related "damage"/ health problems. Notification of occupational diseases. Occupational health and disabilities.
- Topic 6. Expert opinion in the field of Occupational Medicine.
- Topic 7. Scientific Research in Occupational Medicine. Collaboration within so-called "specialists of prevention of occupational hazards".

### 4.4. Course planning and calendar

Dates of scheduled activities

- Lectures (on Monday): 17: 00-19: 30hs pm
- Exact dates of presental lectures will be available at the Moodle course.
- Tutorship: They must be arranged with the Professor (sending email)
- Completion of cases on the online platform (*Virtual patients*)  
It must be done before the date scheduled for the written examination.
- Presentation of students? works and other mandatory tasks:  
The deadline will be shown in Moodle (it will be before the date set for the written test)
- Evaluation: <https://medicina.unizar.es/quinto-curso#horario9>

### 4.5. Bibliography and recommended resources

<http://psfunizar10.unizar.es/br13/egAsignaturas.php?codigo=26787>