

1. BASIC INFORMATION

Course	Occupational Risks
Degree program	Bachelor's Degree in Dentistry
School	Biomedical and Health Sciences
ECTS	3 (75hs)
Year	5º
Credit type	Optional
Language(s)	Spanish/English
Delivery mode	Presence
Semester	First or second semester
Academic year	2024 - 2025
Coordinating professor	María rosa García Villalobos

2. PRESENTATION


Occupational Risks is an optional subject within the Degree of Dentistry, corresponding to the fifth year with a value of three ECTS credits, as the rest of the elective subjects of the degree.

The importance of the subject within the curriculum is obvious, given that we will train future experts in dentistry that regardless of their professional development scope (own clinic, worker of a clinic, hospital, teaching, etc.), need to have the best skills in terms of professional risks to develop their work. This subject provides the student knowledge of vital importance to face their professional activity, since knowing and preventing the risks derived from dental care will help us to reduce the possible problems and occupational diseases.

3. COMPETENCIES AND LEARNING OUTCOMES

The following table shows the relationship between the competencies developed during the course and the learning outcomes pursued:

Core competences:



CC2. Students will know how to apply their knowledge to their work or vocation in a professional manner and possess the skills that are usually demonstrated through the elaboration and defense of arguments and the resolution of problems within their area of study.

CC3. Students are able to bring together and perform important facts (usually on their study area), and issue a sentence that includes social, scientific or ethical reflections.

CC5. Students develop the learning skills needed to carry out works with a high level of personal autonomy.

Cross-curricular competences:

CCC1. Autonomous learning: Process that allows the person to be the author of their own development, choosing the paths, strategies, tools and moments that they consider most effective to learn and implement independently what they have learned. The autonomous student, definitely, selects the best strategies to achieve their learning objectives.

CCC3. Ability to adapt to new situations: Being able to work under different conditions, different people and various groups. Valuing and understanding different positions, adapting their own approach as the situation demands.

CCC7. Ethical value awareness: Ability to think and act according to the universal principles based on the personal values aimed at his full development related to the commitment of determined social values.


Specific competences:

SC1. Recognise the basic elements of the dental profession, including the ethical principles and legal responsibilities.

SC2. Understand the importance of such principles for the benefit of the patient, society and profession, with special attention to professional secrecy.

SC4. Understand and recognize the social and psychological aspects relevant to the treatment of patients.

SC5. Know how to apply the principles of controlling anxiety and stress on oneself, on patients and on other members of the dental team.

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- SC7. Promote autonomous learning of new concepts, techniques and also motivation in order to obtain quality.
- SC8. Learn to share information with other health professionals and learn teamwork skills.
- SC10. Know and identify psychological and physical problems derived from gender violence to train students in the prevention, early detection, assistance, and rehabilitation of victims of this form of violence.
- SC17. Understand and recognize the principles of ergonomics and safety at work (including control of cross infection, radiation protection and occupational and biological diseases).
- SC18. Know, critically assess and know how to use the sources of clinical and biomedical information to obtain, organize, interpret and communicate scientific and health information.
- SC29. Recognize the determinants of the oral health in the population, both genetic and dependent in lifestyle, demographic, environmental, social, economic, psychological and cultural.
- SC30. Recognize the role of the dentist in prevention and protection against oral diseases and also in maintaining and promoting health, at the individual and the community level.
- SC31. Understand the National Health System and the basics of health legislation, clinical management and appropriate use of health resources, understanding the importance of the paper.

Learning outcomes:

- LO1. Expand and improve the knowledge of all those agents (physical, chemical and biological) that cause pathologies during the development of the dental profession.
- LO2. Make a satisfactory identification of all the dangers that your clinical practice entails for your health and those of your collaborators.
- LO3. Know the current regulations in prevention of Occupational Hazards.
- LO4. Ability to make a map of occupational risks of the company in which we will work and carry out the prevention policy of the same.
- LO5. Promotion of healthy skills in clinical practice: work postures, use of barrier methods, and prevention of work stress.

Competencies	Learning outcomes
CC2, CC3, CCC3, CCC7, CCC10, SC1, SC7, SC17, SC18, SC29	LO1. Expand and improve the knowledge of all those agents (physical, chemical and biological) that cause pathologies during the development of the dental profession.
CC2, CC3, CCC2, CCC7, SC1, SC2, SC8, SC10, SC17, SC18, SC29	LO2. Make a satisfactory identification of all the dangers that your clinical practice entails for your health and those of your collaborators.
CC2, CC3, CC5, CCC3, CCC7, CCC8, CCC10, SC1, SC2, SC31	LO3. Know the current regulations in prevention of Occupational Hazards.
CC3, CC5, CCC7, CCC10, SC7, SC17, SC7, SC17, SC18, SC29	LO4. Ability to make a map of occupational risks of the company in which we will work and carry out the prevention policy of the same.
CC2, CC3, CCC1, CCC2, CCC8, SC1, SC2, SC7, SC4, SC5, SC17, SC30	LO5. Promotion of healthy skills in clinical practice: work postures, use of barrier methods, and prevention of work stress.

4. CONTENT

The subject is organized into 5 Learning Units, which are divided into the following learning resources:

Unit 1. Introduction to occupational risks in dentistry.

Topic 1. Presentation. Concept of occupational health and work accident. Legislation.

Topic 2. Presentation. Law of prevention of occupational risks.

Topic 3. Presentation. Damages derived. Industrial accidents and occupational diseases. The objective of this Unit is to know the current regulations on occupational risk prevention.

Unit 2. Risk factors I.

Topic 1. Multimedia theme. Biological agents.

Topic 2. Presentation. Physical agents.

Topic 3. Multimedia theme. Chemical agents.

The objective of this Unit is to expand and improve the knowledge of all those agents (physical, chemical and biological) that cause pathology during the development of the dental profession.

Unit 3. Risk factors II.

Topic 1. Presentation. Risks for psychic work overload.

Topic 2. Multimedia theme. Physical overload.

Topic 3. Podcast. Interview with an expert: preparation of a plan for the prevention of occupational risks in the dental clinic.

The objective of this Unit is to expand and improve the knowledge of all those agents (psychological and postural) that cause pathology during the development of the dental profession.

5. TEACHING-LEARNING METHODOLOGIES

The types of teaching-learning methodologies used are indicated below:

- Master Class
- Case Method
- Problem-Based Learning (PBL)
- Simulation Environments

Learning Results	Learning Activities	Type of Activity	Content
RA1, RA2	Activity 1	Master classes Study and self-work Practical exercises Tutorials	Unit 1 / Topic 1 – Concept of occupational health and accident at work Topic 2- Law on prevention of occupational risks. Topic 2 - Title: Law of prevention of labor risks. LPRL Topic 3 - Derived damages.
RA3	Activity 2	Master classes Study and self-work Practical exercises Tutorials	

			Occupational accidents and diseases
RA2, RA3, RA4	Activity 3	Master classes Study and self-work Practical exercises Tutorials	Topic 3 - Derived damages. Accidents and occupational diseases
RA4, RA5	Activity 4	Master classes Study and self-work Practical exercises Tutorials Case analysis	Unit 2 / Topic 1 - Biological agents Topic 2 - Physical agents Topic 3 Chemical agents
	Activity 5	Master classes Study and self-work Practical exercises Tutorials Practical exercises	
RA5	Activity 6 Exercise 1 Exercise 2	Master classes Study and self-work Practical exercises Tutorials Practical exercises Practices	Unit3 / Topic 1 - Risks due to psychic work overload. Theme 2: Physical overload. Topic 3: Elaboration of an occupational risk plan in the dental clinic.
	Activity 7	Master classes Study and self-work Practical exercises Tutorials Practical exercises	Unit 2/ Topic 2 - Physical agents
RA1, RA2, RA4, RA5	Activity 8	Knowledge tests	U1, U2, U3

6. LEARNING ACTIVITIES

Listed below are the types of learning activities and the number of hours the student will spend on each one:

Learning activity	Number of hours
Master clases	20 h
Practical exercises	10 h
Tutorials	3 h
Case analysis	5 h
Knowledge tests	2 h
Study and autonomous work	35 h
TOTAL	75 h

7. ASSESSMENT

Listed below are the assessment systems used and the weight each one carries towards the final course grade:

Sistema de evaluación	Peso
<i>Unidad 1</i> <i>Activity 1 Prevention of injuries caused by sharp instruments in the health sector.</i> <i>Activity 2 Prevention of psycho-social occupational hazards in Dentistry.</i>	10% 10%
<i>Unidad 2</i> <i>Activity 3 Identification of incorrect postures during work at a dental practice that can result in physical stress.</i>	20%
<i>Unidad 3</i>	

<i>Activity 4 Handwash and venopunction workshop</i>	20%
Activity 5 <i>Final Exam</i>	40%

When you 8an8mu the course on the *Campus Virtual*, you'll find a description of the assessment activities you have to complete, as well as the delivery deadline and assessment procedure for each one.

b. First exam period

In order to pass the course in the first exam period the average weighted grade of all the activities listed in the previous table in the ordinary 8an8mu, must be equal to or greater 8an 5, taking into account that with a grade lower 8an 4.5 in one or more activities it does not average. Two of the scheduled activities can be recovered, either by absence or by having a grade that does not reach the 8an8mum of what is necessary to be able to calculate the average. You must obtain a grade equal to or greater 8an 5 in the knowledge test (see annexes).

b. Second exam period

In order to pass the course in the second exam period you must deliver the activities indicated by the teacher, whose weighted average score must be equal to or greater than 5, bearing in mind that with a grade lower 8an 4.5 in one or more activities does not average. And also obtain a grade equal to or greater than 5 in the knowledge test.

8. SCHEDULE

This table shows the delivery deadline for each assessable activity in the course:

Actividades evaluables	Fecha
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Activity 1	October 3rd, 2024
Activity 2	October 31st, 2024
Activity 4	November 7 th , 2024
Activity 3	December 5th, 2024
Final Exam	Not known yet

This schedule may be subject to changes for logistical reasons relating to the activities. The student will be notified of any change as and when appropriate.

9. BIBLIOGRAPHY

Next, the recommended bibliography for all the subject is indicated:

VV.AA. Enciclopedia de Medicina, Higiene y Seguridad en el Trabajo.

Ginebra (Suiza): Organización Internacional del Trabajo (OIT).

VV.AA. Guía para la buena práctica en prevención de los consultorios dentales. Madrid: Consejería de Sanidad de la Comunidad de Madrid.

VV.AA. Guía de Actividades Preventivas en la práctica médica. Rockville (MD): Informe del US Preventive Services Task Force.

Bandrés Moya, F. y Rodríguez Meseguer, J.M. (1999). Lecciones de terapia ocupacional. Madrid: Universidad Complutense de Madrid y Fundación de Servicios Laborales.

Lanas Ugarteburu, P.M. (1991) Conocimiento, evaluación y control del ruido. San Sebastián: Asociación para la Prevención de Accidentes.

Additional bibliography for Learning Units 1 and 2.

Unidad de Aprendizaje 1:

- Ley Orgánica 31/1995, de 8 de noviembre, de Prevención de Riesgos Laborales. Boletín Oficial del Estado.

Unidad de Aprendizaje 2:

- Prevención y Control de Enfermedades Transmisibles Recomendaciones en Odontoestomatología.

10. DIVERSITY MANAGEMENT UNIT

Students with specific learning support needs:

Curricular adaptations and adjustments for students with specific learning support needs, in order to guarantee equal opportunities, will be overseen by the Diversity Management Unit (UAD: Unidad de Atención a la Diversidad).

It is compulsory for this Unit to issue a curricular adaptation/adjustment report, and therefore students with specific learning support needs should contact the Unit at unidad.diversidad@universidadeuropea.es at the beginning of each semester.