

Year 2023/2024

470402 - Introduction to research and sanitary documentation

Information about the subject

Degree: Bachelor of Science Degree in Podiatry

Faculty: Faculty of Medicine and Health Sciences

Code: 470402 Name: Introduction to research and sanitary documentation

Credits: 6,00 ECTS Year: 4 Semester: 1

Module: GENERAL PODOLOGY AND BIOMECHANICS

Subject Matter: Research and management Type: Compulsory

Field of knowledge: Health Sciences

Department: -

Type of learning: Classroom-based learning

Languages in which it is taught: Spanish

Lecturer/-s:

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Module organization

GENERAL PODOLOGY AND BIOMECHANICS

Subject Matter	ECTS	Subject	ECTS	Year/semester
General Podiatry	21,00	Evolutionary Podiatry	3,00	This elective is not offered in the academic year 23/24
		Expertise in podiatry	3,00	This elective is not offered in the academic year 23/24
		General Podiatry	6,00	1/2
		Preventive Podiatry	3,00	4/1
		Social Morality. Deontology	6,00	3/1
Biomechanics	27,00	Biomechanics	6,00	2/2
		Ergonomics and footwear	3,00	4/1
		General Intervention Procedures	6,00	This elective is not offered in the academic year 23/24
		Physiotherapy Assessment	6,00	This elective is not offered in the academic year 23/24
		Sports Podiatry	6,00	3/2
Radiology	6,00	Radiology and Radiation Protection	6,00	3/1



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Research and management	12,00	Introduction to research and sanitary documentation	6,00	4/1
		Planning and management of the podiatric clinic	6,00	4/2

Recommended knowledge

None required.

Learning outcomes

At the end of the course, the student must be able to prove that he/she has acquired the following learning outcomes:

- R1 The student acquires criteria to select the sources of information in Podiatry and Health Sciences.
- R2 The student performs a critical reading of scientific articles.
- R3 The student develops a scientific research protocol.



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Competencies

Depending on the learning outcomes, the competencies to which the subject contributes are (please score from 1 to 4, being 4 the highest score):

BASIC		1	Weig	hting	ı
		1	2	3	4
CB1	Students demonstrate knowledge and understanding in an area of study that is at the core of general secondary education, and is often at a level that, while supported by advanced textbooks, also includes some aspects that involve knowledge from the cutting edge of their field of study.				x
CB3	Students have the ability to gather and interpret relevant data (usually within their area of study) to make judgments that include reflection on relevant social, scientific or ethical issues.				X
CB4	Students convey information, ideas, problems and solutions to both specialized and non-specialized audiences.				X
CB5	Students develop those learning skills necessary to undertake further studies with a high degree of autonomy.				X

GENER	RAL	1	Ne	igł	ntin	ıg	
	1		2	2	3		4
CG9	Students critically assess the terminology, clinical trials and methodology used in podology-related research.				x		

SPECIFIC			Wei	ghti	ng	
		1	2	3	3	4
and sou and cor basic cor retrieva	ts know, critically evaluate and know how to use technologies urces of biomedical information, to obtain, organize, interpret mmunicate scientific and health information. To know the oncepts of biostatistics and its application. Use search and il systems of biomedical information and understand and					x
•	y interpret scientific texts. Know the principles of the scientific l, biomedical research and clinical trials.					



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CE43 Students identify and analyze foot health problems in the different environmental, biodynamic and social aspects, as well as learning about the evaluation of scientifically proven facts and the analysis of data in general, in order to apply Podiatry Based on Scientific Evidence.

X

TRANSVERSAL Weighting			I	
	1	2	3	4
CT1	Analytical capabilities		X	
CT7	Problem solving		X	1
CT8	Decision making		X	
СТ9	Teamwork		X	
CT10	Interdisciplinary teamwork		x	
CT14	Critical Reasoning		x	
CT15	Ethical commitment		x	
CT16	Autonomous learning		X	
CT17	Adaptation to new situations		X	
CT22	Motivation for quality		x	



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Assessment system for the acquisition of competencies and grading system

Assessed learning outcomes	Granted percentage	Assessment method
R1, R2, R3	15,00%	Open questions
R1	30,00%	Tests
R1, R2, R3	30,00%	Oral presentation
R1, R2, R3	5,00%	Class participation
R1	20,00%	Practice exam- technical proficiency testing

Observations

To pass the course it will be compulsory to obtain a minimum of 5 out of 10 in each of the theoretical and practical tests and in the proposed research project which will be deposited in the teaching platform and exhibited in poster format.

- 1. Open questions: 4 short development questions (2 for research and 2 for documentation).
- 2. Test type: it will consist of an exam with 20 test type questions (15 of research and 5 of documentation),
- 3. Presentation: will consist of the elaboration of a research project, to be carried out in a group or individually (30%)
- 4. Participation in class: attendance and participation in class.

MENTION OF DISTINCTION:

According to Article 22 of the Regulations governing the Evaluation and Qualification of UCV Courses, the mention of "Distinction of Honor" may be awarded by the professor responsible for the course to students who have obtained, at least, the qualification of 9 over 10 ("Sobresaliente"). The number of "Distinction of Honor" mentions that may be awarded may not exceed five percent of the number of students included in the same official record, unless this number is lower than 20, in which case only one "Distinction of Honor" may be awarded.



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Learning activities

The following methodologies will be used so that the students can achieve the learning outcomes of the subject:

- M1 Theoretical classes (TC). Training activity preferably oriented to the acquisition of knowledge skills. It is characterised by the fact that students are spoken to. Also called master class or expository class, it refers to the oral exposition made by the teacher, (with the support of a blackboard, computer and cannon for the exposition of texts, graphics, etc.).
- M2 Seminars (S). Training activity preferably oriented to obtain knowledge application and research competences. Knowledge is built through interaction and activity. Consisting of supervised monographic sessions with shared participation (Teachers, students, experts). The size of the group is variable, from a large group to small groups, no less than 6 students for interaction. The evaluation will be made by means of follow-up records by the teacher. Participation and development of problem-solving skills should be taken into account.
- M3 Problems practice (CPP). Training activity oriented to group work for problem solving under the supervision of a teacher. The size of the group is variable, in a range of 10-20 students, to avoid confusion with a master class.
- M4 Classroom practice (CPA). Training activity of work in groups that is developed in the classroom. It includes work with documents (e.g.: work with articles or documents, clinical case studies, diagnostic analyses, etc). The size of the group is variable, in a range of 10-20 students.
- M5 Computer Practice (CPI). Training activity of work in groups that is developed in the Computer Classroom where the learning is developed using the computer as a support. It includes the work with computer models, specific software, web queries, etc. The size of the group is variable, in a range of 10-20 students.
- M6 Laboratory Practice (CPL). Training activity of work in groups that is developed in the Laboratory. It includes the sessions where students actively and autonomously develop, supervised by the teacher, laboratory experiments. The size of the group is variable, in a range of 10-20 students.



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- Tutorials (T). Set of activities carried out by the teacher with personalised attention to the student or in small groups with the aim of reviewing and discussing the materials and topics presented in the classes, seminars, readings, completion of assignments, etc.

 The aim is to ensure that education is truly a comprehensive training of the student and is not reduced to a transfer of information. It is, therefore, a personalized relationship of help in which the teacher-tutor attends, facilitates and guides one or more students in the formative process.
- M8 Evaluation (Ev). It is the set of processes that try to evaluate the learning results obtained by the students and expressed in terms of acquired knowledge, capacities, developed skills or abilities and manifested attitudes. It covers a wide range of activities that can be developed for students to demonstrate their training (e.g. written, oral and practical tests, projects or assignments,). It also includes Official Calls.
- M10 Estudio del alumno: Preparación individual de lecturas, ensayos, resolución de problemas, seminarios



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IN-CLASS LEARNING ACTIVITIES

	LEARNING OUTCOMES	HOURS	ECTS
Theoretical lessons	R1, R2, R3	33,50	1,34
Seminar M2	R1, R2, R3	3,50	0,14
Practice lessons M3, M4, M5	R1, R2, R3	17,00	0,68
Office Hours	R1, R2, R3	1,00	0,04
Evaluation _{M8}	R1, R2, R3	5,00	0,20
TOTAL		60,00	2,40

LEARNING ACTIVITIES OF AUTONOMOUS WORK

	LEARNING OUTCOMES	HOURS	ECIS
Autonomous work _{M10}	R1, R2, R3	66,00	2,64
Group work M10	R1, R2, R3	24,00	0,96
TOTAL		90,00	3,60



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Description of the contents

Description of the necessary contents to acquire the learning outcomes.

Theoretical contents:

Content block	Contents
UNIT I: Introduction to the scientific method	·The scientific method as a basis for research in Health Sciences.
UNIT II: Planning of the research	·Elements of the research project. ·Proposal of the research problem. ·Research hypothesis formulation. Types of hypotheses. ·Setting the primary and secondary objectives in a
	research.
UNIT III: Research design	Research design. Types of studies. Characteristics of quantitative studies. Types. Characteristics of qualitative studies. Types. Importance, viability of a research project.
UNIT IV: Research Methodology	Selection of the study population. Sampling techniques Variables and their types. Errors and biases in research Quantitative and qualitative data collection techniques. Biostatistics. Practical application in Health Sciences.
UNIT V: Ethical considerations in research	·Up-to-Date ethics in research. ·Informed Consent. Guidelines for its elaboration.
UNIT VI: Structure and presentation of the research	·Structure of the IMRD format in health sciences. Characteristics. ·Structure of the Bibliographic Review. Characteristics.
UNIT VII: The Communication in Scientific Research. Bibliographic References and Citation Systems in Health Sciences	·Scientific communication. The scientific article: types and functions. ·Bibliographic references and citation systems in Health Sciences.



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UNIT VIII: Methodology for Bibliographic Search and Information within

·Methodology for the search for bibliographic information.

UNIT IX: Information Resources

·Information Resources.

UNIT X: Internet Search Tools

·Tools for searching information on the Internet.

UNIT XI: Health Sciences Database Search

·Search in national and international databases. Types. Methodology.

UNIT XII: Database searches: Ebscohost Platform and Web of Science

·Search in Ebscohost Platform and Web of Science. Methodology.

·Search for resources for Evidence-Based Podiatry.

UNIT XIII: Information resources in Health Sciences

Information resources in Health Sciences.

UNIT XIV: Scientific evidence in Podiatry.

Sources of Information for Evidence-Based Podiatry

·Critical reading of scientific articles. Guidelines.

UNIT XV: Critical reading of scientific

articles



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Temporary organization of learning:

Block of content	Number of sessions	Hours
UNIT I: Introduction to the scientific method	1,00	2,00
UNIT II: Planning of the research	2,00	4,00
UNIT III: Research design	4,00	8,00
UNIT IV: Research Methodology	5,00	10,00
UNIT V: Ethical considerations in research	1,00	2,00
UNIT VI: Structure and presentation of the research	2,00	4,00
UNIT VII: The Communication in Scientific Research. Bibliographic References and Citation Systems in Health Sciences	4,00	8,00
UNIT VIII: Methodology for Bibliographic Search and Information within	1,00	2,00
UNIT IX: Information Resources	2,00	4,00
UNIT X: Internet Search Tools	1,00	2,00
UNIT XI: Health Sciences Database Search	2,00	4,00
UNIT XII: Database searches: Ebscohost Platform and Web of Science	2,00	4,00
UNIT XIII: Information resources in Health Sciences	1,00	2,00
UNIT XIV: Scientific evidence in Podiatry. Sources of Information for Evidence-Based Podiatry	1,00	2,00



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UNIT XV: Critical reading of scientific articles

1,00

2,00



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Addendum to the Course Guide of the Subject

Due to the exceptional situation caused by the health crisis of the COVID-19 and taking into account the security measures related to the development of the educational activity in the Higher Education Institution teaching area, the following changes have been made in the guide of the subject to ensure that Students achieve their learning outcomes of the Subject.

<u>Situation 1: Teaching without limited capacity</u> (when the number of enrolled students is lower than the allowed capacity in classroom, according to the security measures taken).

In this case, no changes are made in the guide of the subject.

<u>Situation 2: Teaching with limited capacity</u> (when the number of enrolled students is higher than the allowed capacity in classroom, according to the security measures taken).

In this case, the following changes are made:

1. Educational Activities of Onsite Work:

All the foreseen activities to be developed in the classroom as indicated in this field of the guide of the subject will be made through a simultaneous teaching method combining onsite teaching in the classroom and synchronous online teaching. Students will be able to attend classes onsite or to attend them online through the telematic tools provided by the university (videoconferences). In any case, students who attend classes onsite and who attend them by videoconference will rotate periodically.

n the pa	articular case of this subject,	these	videoconferen	ces will be made	through:
X	Microsoft Teams				

Kaltura	Kaltur
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Situation 3: Confinement due to a new State of Alarm.

In this case, the following changes are made:

1. Educational Activities of Onsite Work:

All the foreseen activities to be developed in the classroom as indicated in this field of the guide of the subject, as well as the group and personalized tutoring, will be done with the telematic tools provided by the University, through:

X Microsoft Teams	
Kaltura	
Explanation about the practical sessions:	



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2. System for Assessing the Acquisition of the competences and Assessment System

ONSITE WORK

Regarding the Assessment Tools:							
Х	The Assessment Tools will be done online thro		odified. If onsite assessment Campus.	t is not possible, it			
	The following changes will be made to adapt the subject's assessment to the online teaching.						
Course guide		Adaptation					
	Assessment tool	Allocated percentage	Description of the suggested changes	Platform to be used			

The other Assessment Tools will not be modified with regards to what is indicated in the Course Guide.

Comments to the Assessment System: