

**COURSE DATA****Data Subject**

<b>Code</b>	33006
<b>Name</b>	Use of Information communication technology (ICT)
<b>Cycle</b>	Grade
<b>ECTS Credits</b>	6.0
<b>Academic year</b>	2022 - 2023

**Study (s)**

<b>Degree</b>	<b>Center</b>	<b>Acad. Period</b>
1202 - Degree in Physiotherapy	Faculty of Physiotherapy	1 First term

**Subject-matter**

<b>Degree</b>	<b>Subject-matter</b>	<b>Character</b>
1202 - Degree in Physiotherapy	6 - Information technology	Basic Training

**Coordination**

<b>Name</b>	<b>Department</b>
CASAÑA GRANELL, JOSÉ	191 - Physiotherapy
CUENCA MARTINEZ, FERRAN	191 - Physiotherapy

**SUMMARY**

Introduction and use of ICT applied to Physiotherapy (Social Media, Informatics, Ofimatic and Multimedia tools) and familiarization with the basic process of searching for information and preparing scientific papers.

**PREVIOUS KNOWLEDGE****Relationship to other subjects of the same degree**

There are no specified enrollment restrictions with other subjects of the curriculum.



### Other requirements

It is not necessary previous requirements.

## OUTCOMES

### 1202 - Degree in Physiotherapy

- Students must have acquired knowledge and understanding in a specific field of study, on the basis of general secondary education and at a level that includes mainly knowledge drawn from advanced textbooks, but also some cutting-edge knowledge in their field of study.
- Students must be able to apply their knowledge to their work or vocation in a professional manner and have acquired the competences required for the preparation and defence of arguments and for problem solving in their field of study.
- Students must have the ability to gather and interpret relevant data (usually in their field of study) to make judgements that take relevant social, scientific or ethical issues into consideration.
- Students must be able to communicate information, ideas, problems and solutions to both expert and lay audiences.
- Students must have developed the learning skills needed to undertake further study with a high degree of autonomy.
- Know and understand the sciences, models, techniques and instruments on which Physiotherapy is based, structured and developed
- Work on and systematically complete physiotherapy records
- Respect fundamental rights and equality between men and women.
- Recognise diversity, multiculturality, democratic values and peace culture.
- Work in teams.
- Have the ability to organise and plan work.
- Acquire knowledge related to the information and communication technologies.
- Acquire sensitivity to environmental issues.
- Acquire basic knowledge about hardware and software.
- Know how to use basic office software.
- Know how to use the Aula Virtual of the Universitat de València.
- Know how to use servers and e-mail.

## LEARNING OUTCOMES

Students will be able to organize the information generated in their daily work efficiently and clearly.



Students will be able to seek and safeguard any information previously stored in a computer safely.

Students will be able to write clear and structured documents using formats and references to the word processor will provide.

## DESCRIPTION OF CONTENTS

### 1. GENERAL ENVIRONMENT

Unit 1. ICT in Physiotherapy.

Unit 2. Introduction to computerscience and telecommunications.

Unit 3. Treatment of information. Basic tasks.

Unit 4. Web environment and Internet.

Unit 5. Security, privacy and confidentiality of data.

### 2. SPECIFIC ENVIRONMENT

Unit 6. Office suite and multimedia.

Unit 7. Multimedia presentations. Written and oral strategies for your communication.

Unit 8. Disclosure of information. Infographics, podcast, videos.

Unit 9. Web tools and applications in physiotherapy

Unit 10. E-health, telemedicine, tele-health and tele-education.

### 3. SCIENTIFIC ENVIRONMENT

Unit 11. Basic aspects of research in physiotherapy.

Unit 12. Search for scientific information. Bibliographic databases, search engines, portals and managers.

Unit 13. Management of scientific information. Storage of bibliographical resources.

Unit 14. Communication of information, oral presentations, posters, articles and other scientific documents.

### 4. PRACTICAL

Practice1. Environment and UV resources.

Practice 2. Environment and web resources in practical physiotherapy.

Practice 3. Social networks and applications in physiotherapy.

Practices 4, 5 and 6. Office applications (Powerpoint, Word, Excel).

Practices 7 and 8. Multimedia editing (image, sound and video) in the physiotherapy environment.

Practice 9. Applications related to health.

Practice 10. ICT in the research process.

**WORKLOAD**

ACTIVITY	Hours	% To be attended
Computer classroom practice	40,00	100
Theory classes	20,00	100
Development of group work	15,00	0
Development of individual work	15,00	0
Study and independent work	30,00	0
Preparation of evaluation activities	15,00	0
Preparing lectures	15,00	0
<b>TOTAL</b>	<b>150,00</b>	

**TEACHING METHODOLOGY**

The contents of the lectures will be worked through lectures, group activities and encouraging participatory cooperative learning. Also be used problem solving and be stepped on certain issues through seminars and workshops

The labs will be used primarily solving exercises and problems. Also will consider the case studies. Some of these activities are conducted in a group.

Students must perform work individually and in groups where a related project exposed the practical content. In addition, each must carry out a portfolio.

The teaching program may be modified during the development of the course if the teacher under teacher quality criteria and assimilation of knowledge by the student it deems appropriate.

**EVALUATION****THEORETICAL PART: 30% FINAL GRADE**

- Objective test: **30%**

In paper or digital format. (will be determined by the professor). Total 30 questions. Every question has 4 options and only 1 correct.

GRADE= [right guess- (errors/Nº de answers-1)]\*(0,33)

**PRACTICAL PART: 70% FINAL GRADE**



- Attendance at practices: 10%
- Group elaboration of a project and its presentation: 60%

The evaluation criteria and oral presentation will be provided by the teacher at the time.

Attendance is mandatory at all practices and only an absence of 20% of the total of these can be duly justified.

The score of the subject will be the sum of the maximum score obtained in block theory and the maximum score obtained in the practice block. Each test set will be valued over 10, and then get the percentage of each one.

The final grade for the course will be averaged, provided the student has obtained at least 5 of 10 in each of the sections and obtained 80% attendance at practices:

- Project group
- Objective test

Take into account the following considerations:

- Plagiarism of any content will the suspense of the subject
- Penalize the incorrect spelling

## REFERENCES

### Basic

- Alonso, m. Y matilla, l. (1990). Imágenes en acción. Madrid. Akal.
- Aparici, r. (1993). La revolución de los medios audiovisuales. Madrid. De la torre.
- Agualeles, M.A.(1990). Escola i noves tecnologies. Barcelona: CEAC; Ferrer, A. Y Alcantud, F (1995). La tecnología de la información y de la comunicación en el medio escolar. Valencia: Nau llibres.
- Casaban, enric. Introducció a la informàtica. Universitat de valència, 1993.
- Ferres prats, j. Y marques graells, p.l (1996). Comunicación educativa y nuevas tecnologías. Barcelona. Praxis.
- Insa ghisaura, d. Y morata sebastián, r. (1998). Multimedia e internet. Las nuevas tecnologías aplicadas en la formación. Madrid. Paraninfo.
- Masterman, l. (1993). La enseñanza de los medios de comunicación. Madrid. De la torre.

### Additional

- Ahumada, S. R. (1989). Proyecto COEEBA-SEP: Enseñanza de la Informática. Revista Tecnología y Comunicación Educativas, 15, 55-60.





- Bartolomé, A. R. (1999). Nuevas tecnologías en el aula. Guía de supervivencia. Barcelona, España: Graó.
- Bitter, G. G. & Pierson, M. E. (1999). Using technology in the classroom (4a. ed.). Needham Heights, MA, EE. UU.: Allyn & Bacon.