

COURSE DATA

Data Subject		
Code	33008	
Name	Pathology and therapeutic focus on the locomotor system	
Cycle	Grade	
ECTS Credits	6.0	
Academic year	2021 - 2022	

Degree	Center	Acad. Period
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1202 - Degree in Physiotherapy Faculty of Physiotherapy 2 First term

Subject-matter		
Degree	Subject-matter	Character
1202 - Degree in Physiotherapy	7 - Medical conditions and surgical conditions and their treatments	Basic Training

Coordination

Study (s)

Name	Department
HERNANDEZ GUILLEN, DAVID	191 - Physiotherapy
LLACER BOSCH, MARÍA JOSÉ	191 - Physiotherapy

SUMMARY

Pathophysiology of various diseases of the musculoskeletal system.

- Clinical manifestations of different diseases of the musculoskeletal system.
- Medical and surgical treatments of various diseases of the musculoskeletal system.
- Recognition and evaluation of symptoms of disease.
- Recognition of the time course of the disease



PREVIOUS KNOWLEDGE

Relationship to other subjects of the same degree

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

Other requirements

Knowledge of Lower Extremity Anatomy and Arthrokinematics is recommended to all applicants.

OUTCOMES

1202 - Degree in Physiotherapy

- Respetar los derechos fundamentales y de igualdad entre hombres y mujeres.
- Reconocer la diversidad, la multiculturalidad, los valores democráticos y la cultura de la paz.
- Trabajar en equipo
- Tener capacidad de organizar y planificar el trabajo
- Conocer los aspectos generales de la patología de etiología endógena y exógena del aparato locomotor, respiratorio, cardiovascular y nervioso.
- Conocer los cambios estructurales, fisiológicos y funcionales que se producen como consecuencia de la intervención de la Fisioterapia.
- Saber reconocer y valorar los síntomas de las enfermedades.
- Saber reconocer el momento evolutivo de las enfermedades estudiadas.
- Conocer los diferentes tratamientos médico-quirúrgicos de las enfermedades estudiadas.
- Fomentar la participación del usuario y familia en su proceso de recuperación.

LEARNING OUTCOMES

The student will know the characteristic features of the pathology of the musculoskeletal system, the time course of the same and medical and surgical treatments applied in each case.

DESCRIPTION OF CONTENTS

1. GENERAL

SECTION 1: Bone Fractures.

Chapter 1. Bone tissue. Histology and physiology

Chapter 2. Fractures. Definition. Classification

Chapter 3. Clinical findings

Chapter 4. Imaging studies interpretation

Chapter 5. Bone fracture complications

Chapter 6. Bone healing process



Chapter 7. Bone fracture treatment guidelines

Chapter 8. Conservative and surgical treatment of bone fractures

Chapter 9. Characteristics of fractures in children

Chapter 10. Characteristics of fractures in the elderly

SECTION 2. Muscular physiopathology.

Chapter 11. Intrinsic and extrinsic muscular lesions

SECTION 3. Tendon physiopathology.

Chapter 12. Traumatic tendon lesions

Chapter 13. Inflammatory tendon lesions

SECTION 4. Lesions of bursa tissue

Chapter 14. Bursitis, synovial cysts and ganglions

SECTION 5. Nerve tissue physiopathology.

Chapter 15. Peripheral nerves acute trauma

Chapter 16. Chronic lesions. Canal syndromes

SECTION 6. Joint physiopathology

Chapter 17. Joint trauma. Sprains and luxations

Chapter 18. Degenerative joint disease. Osteoarthritis

Chapter 19. Inflammatory joint disease. Rheumatoid arthritis

2. UPPER EXTREMITY

SECTION 7. Scapular girdle and shoulder lesions

Chapter 20. Scapular girdle and shoulder traumatic lesions

Chapter 21. Inflammatory shoulder lesions

SECTION 8. Elbow, forearm and wrist lesions

Chapter 22. Elbow, forearm and wrist traumatic lesions

Chapter 23. Inflammatory lesions

3. LOWER EXTREMITY

SECTION 9. Pelvic girdle and hip lesions

Chapter 24. Pelvic basket and acetabulum fractures

Chapter 25. Hip luxation

Chapter 26. Hip fractures

Chapter 27. Diaphysis and supracondylar femoral fractures

SECTION. Knee and ankle lesions

Chapter 28. Patellar fractures. Knee extensor derangements

Chapter 39. Meniscal and ligamentous knee lesions

Chapter 30. Proximal and diaphysis tibial fractures

Chapter 31. Ankle fractures and luxations

Chapter 32. Tarsal bones fractures and luxations



4. SPINE

SECTION. Spinal lesions

Chapter 33. Spinal traumatic lesions

Chapter 34. Spine pathology.

Chapter 35. Skull, face and ribs fractures

5. HANDS-ON PRACTICAL BASED SYLLABUS

Clinical Experience 1:

Imaging Studies clinical interpretation.

Anatomy, clinic, radiographic diagnosis and conservative and surgical treatment of the region of the shoulder joint.

Clinical Experience 2:

Anatomy, clinic, radiographic diagnosis and conservative and surgical treatment of the region of the elbow, wrist and hand joints.

Clinical Experience 3:

Anatomy, clinic, radiographic diagnosis and conservative and surgical treatment of the region of the hip joint and pelvis.

Clinical Experience 4:

Anatomy, clinic, radiographic diagnosis and conservative and surgical treatment of the region of the knee joint.

Clinical Experience 5:

Anatomy, clinic, radiographic diagnosis and conservative and surgical treatment of the region of the ankle joint.

Clinical Experience 6:

Anatomy, clinic, radiographic diagnosis and conservative and surgical treatment of the region of the spine.

Clinical Experience 7:

Elaboration of group work

Clinical Experience 8:

Group work presentation

WORKLOAD

ACTIVITY	Hours	% To be attended
Theory classes	35,00	100
Laboratory practices	25,00	100
Development of individual work	20,00	0
Study and independent work	14,00	0
Preparation of evaluation activities	31,00	0
Preparing lectures	25,00	0
TOTAI	150,00	

TEACHING METHODOLOGY

The subject consists of a theoretical and practical. During the theoretical sessions will be used a teaching-learning methodology based on the participatory master class. There will also be various group activities.

"The teaching program can be modified during the course development if the teacher, under the criterion of quality teaching and assimilation of knowledge by the student, considers it appropriate".

EVALUATION

The evaluation will consist of three blocks, a theoretical block, a practical block and an autonomous work.

For the subject to be considered approved, the final grade must be at least 5 out of 10.

Theorical and Practical Block.

The theoretical block and the practical block will be carried out through a single written examination of the whole theoretical-practical syllabus, which consists of:

THEORETICAL	- Test type test of 50 questions. Qualification = [hits - (errors / no options - 1) x (maximum note / number of questions)]	45%
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The qualification of these two blocks will be averaged as long as the student has obtained a minimum of 5 out of 10 in each of them. The note of the theoretical and practical is not saved between calls. Not surpassing one of the two parts implies to examine again of both in the next call.

Both the THEORETICAL and PRACTICAL exams are recoverable. The test between calls does not change.

Additionally, the attendance to the practices of the subject will be scored for the average of the total score. This note will be saved for the second call, but not for the next course.

RA	PRACTICAL part	-Assistance to practices	5 %
10	2	2	lí

Autonomous working block.

The third block will consist of an autonomous group work, which should be exposed in class, which consists of:

	Autonomous work	 Performing group work. Incorrect spelling and plagiarism will be penalized. (5%) Presentation of group work. 	10%
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Incorrect spelling will be penalized. (5%)	
· MIXI	A

The final qualification of the work and the exhibition must exceed 5 out of 10 in order to mediate with the rest of the blocks.

The note of autonomous work is saved between calls, but not from course to course.

REFERENCES

Basic

- Caceres Palou E, Fernández Sabaté A, Fernández Portal L. et al. Manual SECOT de cirugía ortopédica y traumatología. Madrid: Ed. Médica Panamericana. 2003
- Moller TB, Reif E. Anatomía radiológica. Ed.Marban. 2002
- Pérez-Caballer AJ, De Pedro Moro JA. Patología del aparato locomotor en ciencias de la salud. Ed.
 Panamericana. 2004.
- Sanchis-Guarner Cabanilles M. Patologia quirúrgica osteoarticular. Generalitats. Ed. Universitat de Valencia. 2002
- Sanchis-Guarner Cabanilles M. Patologia quirúrgica osteoarticular. Membres superior i raquis. Ed. Universitat de Valencia. 2007

Additional

- Atkinson K, Coutts F, Hassenkamp AM. Fisioterapia en Ortopedia. Ed. Eselvier. 2006
- Del Amo López R et al. Manual de práctica quirúrgica y traumatológica en atención primaria. Ed. Semergen.2003
- Goodman CC, Snyder TK. Patología médica para fisioterapeutas. Ed. MacGraw-Hill. Interamericana. 2002
- Hoppenfeld S, Murthy VL. Fracturas tratamiento y rehabilitación. Ed. Marban. 2001
 Jurado Bueno A, Medina Porqueres I. Manual de pruebas diagnósticas en traumatología y ortopedia.
 Ed. Paidotribo
- McRae R. Ortopedia y fracturas. Exploración y tratamiento. Ed. Marban; 2000
- Mc Rae R, Esser M. Tratamiento práctico de las fracturas. Ed. Eselvier; 2010
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- Schatzker, Tile. Tratamiento quirúrgico de las fracturas. Ed. Panamericana. 1998
 Munuera L. Introducción a la traumatología y la cirugía ortopédica. MacGraw-Hill. Interamericana.
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- Tixà S. Atlas de Anatomía palpatoria. Tomo I: cuello, tronco y miembro superior. Ed Elservier Masson; 2006
- Tixà S. Atlas de Anatomía palpatoria. Tomo II: Miembro inferior. Ed Elservier Masson; 2006

ADDENDUM COVID-19

This addendum will only be activated if the health situation requires so and with the prior agreement of the Governing Council

This addendum will only be activated if the health situation so requires and with the prior agreement of Consell de Govern.

1. Contents

The contents initially included in the teaching guide are maintained.

2. Workload and temporary teaching planning

The proportion of the different activities that add up to the hours of dedication in ECTS credits marked in the original teaching guide has been maintained.

3. Teaching methodology

Depending on the needs, teaching will be adapted to the blended or non-classroom mode, through the implementation of the corresponding teaching strategies (i.e. hybrid teaching, videoconference sessions, voice-over presentations, videos or additional multimedia material).

The tutorials may be conducted virtually, following the guidelines of the Universitat de València, via email or videoconference, through the Blackboard Collaborate or Teams platform.

4. Evaluation:



The final evaluation tests will be presential, and only in case of problems caused by the evolution of the pandemic, final evaluation tests will be done online through Aula Virtual of the Universitat de València.

