

**Medical-Surgical Pathology**

Code: 103014  
ECTS Credits: 6

Degree	Type	Year	Semester
2500892 Physiotherapy	FB	2	2

**Contact**

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**Use of Languages**

Principal working language: catalan (cat)  
Some groups entirely in English: No  
Some groups entirely in Catalan: Yes  
Some groups entirely in Spanish: Yes

**Teachers**

Simone Perelli

**Prerequisites**

To acquire the knowledge about of physio-pathological concepts and diagnostic techniques of the musculoskeletal

**Objectives and Contextualisation**

The subject is scheduled in the second year of the degree of physiotherapy and is part of the specific training. The knowledge of the musculoskeletal system pathology is crucial, as well as its basic medical and surgical treatments. The learning of physiotherapeutic applications in each pathology is also essential.

**Competences**

- Act with ethical responsibility and respect for fundamental rights and duties, diversity and democratic values.
- Analyse and synthesise.
- Display knowledge of the morphology, physiology, pathology and conduct of both healthy and sick people, in the natural and social environment.
- Make changes to methods and processes in the area of knowledge in order to provide innovative responses to society's needs and demands.
- Take account of social, economic and environmental impacts when operating within one's own area of knowledge.
- Take sex- or gender-based inequalities into consideration when operating within one's own area of knowledge.

**Learning Outcomes**

1. Analyse a situation and identify its points for improvement.

2. Analyse and synthesise.
3. Analyse the sex- or gender-based inequalities and the gender biases present in one's own area of knowledge.
4. Consider how gender stereotypes and roles impinge on the exercise of the profession.
5. Critically analyse the principles, values and procedures that govern the exercise of the profession.
6. Enumerate the medico-surgical treatments, mainly in the area of physiotherapy and orthopaedics, that are used in the principal diseases that can be treated by physiotherapy.
7. Explain the explicit or implicit code of practice of one's own area of knowledge.
8. Explain the physiopathology of the principal diseases that can be treated by physiotherapy and identify the symptoms that appear during the process.
9. Identify situations in which a change or improvement is needed.
10. Identify the social, economic and environmental implications of academic and professional activities within one's own area of knowledge.
11. Propose new methods or well-founded alternative solutions.
12. Propose new ways to measure success or failure when implementing innovative proposals or ideas.
13. Propose projects and actions in accordance with the principles of ethical responsibility and respect for fundamental rights, diversity and democratic values.
14. Propose projects and actions that incorporate the gender perspective.
15. Weigh up the impact of any long- or short-term difficulty, harm or discrimination that could be caused to certain persons or groups by the actions or projects.
16. Weigh up the risks and opportunities of suggestions for improvement: one's own and those of others.

## **Content**

### PROGRAM

Dr. Pérez Prieto. Dr. Perelli

### THEORY

- 1- Articular degenerative pathology. Arthrosis, arthroplasty, arthrodesis (Dr. Pérez Prieto)
- 2- Articular inflammatory pathology. Arthritis (Dr. Pérez Prieto)
- 3-Fractures. Generalities (Dr. Pérez Prieto)
- 4-Reparative process of fractures (Dr. Pérez Prieto)
- 5-Methods of containing fractures
- 6-Complications of consolidation
- 7-Principles of osteosynthesis (Dr. Perelli)
- 8- Muscular pathology (Dr. Perelli)
- 9- Inflammatory pathology and bursas (Dr. Perelli)
- 10- Peripheral nerve lesions (Dr. Perelli)
- 11- Physical lesions. Fractures in the child (Dr. Perelli)
- 12- Infections in the skeletal system (Dr. Pérez Prieto)
- 13- Infections in the skeletal muscle system II (Dr. Pérez Prieto)
- 14-Traumatic tendon injuries (Dr. Pérez Prieto)
- 15- Fractures of the femur. Lux hip (Dr. Pérez Prieto)

- 16-Hip fractures (Dr. Perelli)
- 17-Fx diaphyseal and supracondylar femur. (Dr. Perelli)
- 18- Fx patella and extensor apparatus (Dr. Pérez Prieto)
- 19-Meniscal knee injuries (Dr. Pérez Prieto)
- 20- Ligament injuries of the knee (Dr. Pérez Prieto)
- 21-Fx proximal and diaphyseal tibia (Dr. Pérez Prieto)
- 22- Fx and ankle dislocations (Dr. Perelli)
- 23- Fx and dislocations of the foot (Dr. Perelli)
- 24- Shoulder dislocations (Dr. Pérez Prieto)
- 25- Fracture of the proximal humerus. (Dr. Pérez Prieto)
- 26- Humeral diaphyseal fractures (Dr. Perelli)
- 27- Fractures around the elbow (Dr. Perelli)
- 28- Forearm and wrist fractures (Dr. Perelli)
- 29- Fractures of the carpus and the hand (Dr. Perelli)
- 30- Spinal pain. Pathology rachis (Dr. Perelli)
- 31- Vertebral Fx (Dr. Perelli)
- 32- Non-traumatic pathology of the shoulder (rotator cuff) (Dr. Pérez Prieto)
- 33- Non-traumatic pathology of the elbow (Dr. Pérez Prieto)
- 34- Non-traumatic pathology doll and hand (Dr. Pérez Prieto)

## SEMINARS

- SEMINAR 1.Osteosynthesis material and implants
- SEMINAR 2- Musculoskeletal ultrasound evaluation
- SEMINAR 3 - RX Session. Interpretation of complementary explorations
- SEMINAR 4 - Internet, social networks and information sources
- SEMINAR 5- Clinical cases lower extremity
- SEMINAR 6- Critical reading of scientific articles 1
- SEMINAR 7- Clinical cases upper extremity
- SEMINAR 8 - Critical reading of scientific articles 2

## **Methodology**

Teaching is based on theoretical-practical classes.

Annotation: Within the schedule set by the centre or degree programme, 15 minutes of one class will be reserved for students to evaluate their lecturers and their courses or modules through questionnaires.

## Activities

Title	Hours	ECTS	Learning Outcomes
Type: Directed			
SPECIFIC SEMINAR (SESP)	10	0.4	
THEORY (TE)	35	1.4	2, 6, 8
Type: Supervised			
TUTORIALS	14.5	0.58	6, 8
Type: Autonomous			
CRITICAL READING OF SCIENTIFIC RESEARCH	30	1.2	2, 6, 8
DEVELOPEMENT OF HOMEWORK	30	1.2	2, 6, 8
HOME STUDY	29	1.16	2, 6, 8

## Assessment

### Evaluation

-First TEST: Test with 5 options, only one correct. There will be 20 questions, will score on 10 and will average with the 2nd test. 2 wrong answers subtract 1 correct. Date to be determined with students The exam will evaluate the knowledge of the topics 1-17

-Second TEST: Test with 5 options, only one correct. There will be 20 questions, will score on 10 and will average with the 1st test. 2 wrong answers subtract 1 correct. Date to be determined with students The exam will evaluate the knowledge of the topics 18-34

-Assistance to classes: Attendance at 80% or more of the classes will add to the final grade 0'5 points. If after the average of the 2 test and class attendance a 5 or more is obtained, the subject will be considered as approved and it will not be necessary to take the final exam.

-Recovery exam: Written exam to which students who have not reached 5 after the other two exams may be presented. Date determined by the UAB. Development test with 5 questions (to choose 4 of them, each question scores 2.5 points)

## Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
Class attendance and active participation	0-5%	0.5	0.02	2
General skills	0-5%	0	0	5, 2, 3, 1, 6, 7, 8, 10, 9, 16, 11, 12, 13, 14, 4, 15

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Written evaluation by objective tests: multiple choice questions	95%	1	0.04	6, 8
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## **Bibliography**

### SPECIFIC BIBLIOGRAPHY

-Lecciones básicas en Cirugía Ortopédica y Traumatología. Ignacio Proubasta. Ed Permanyer (se dara copia a los alumnos en PDF)

-Fracturas en el adulto. Rockwood and Green. Marban libros. Madrid 2003.

-Campbell. Cirugía Ortopédica. Elsevier-Mosby. Madrid 2004.

-Manual de Cirugía Ortopédica y Traumatología se la Sociedad Española de Cirugía Ortopédica y Traumatología (SECOT). 2ª Edición. Madrid 2010. Ed. Panamericana

-Patología del Aparato Locomotor. Tomas Jolín y Antonio Silvestre. Ed. Síntesis. Madrid 1996.

### SUPPORT BIBLIOGRAPHY

-Biología y biomecánica de las fracturas. Perren P.S. Masson Barcelona 2003.

-Ortopedia Infantil cotidiana. Dimeglio A. Masson Barcelona 1991.

-Apuntes de ortopedia infantil. Julio de Pablos. Ed ergon SA. 2000

-Manual AO de Osteosíntesis.

### INTERNET WEBPAGES

-[www.ncbi.nlm.nih.gov/pubmed](http://www.ncbi.nlm.nih.gov/pubmed)

-[www.secot.es](http://www.secot.es)

-[www.efisioterapia.net](http://www.efisioterapia.net)

-[www.sedolor.es](http://www.sedolor.es)

-[www.sefidsp.es](http://www.sefidsp.es)

-[www.aefi.net](http://www.aefi.net)

-[www.sermed.es](http://www.sermed.es)

## **Software**

Microsoft PowerPoint