

Degree programme	Type	Course
Physiotherapy	OP	4

Contact lecturer

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Teaching staff

Ramon Rubio Galan

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Group languages

You can consult this information at the [end](#) of the document.

Prerequisites

Basic knowledge of anatomy and biomechanics of the human body.

Comply with regulations regarding the confidentiality of the clinical information of the patients treated in the clinical practices

Objectives

As physiotherapists we must acquire knowledge about the approach to the amputee patient in all its phases. It is necessary to know the characteristics of the amputee patient, the different phases of physiotherapy treatment (pre-surgical, pre-prosthetic and prosthetic) and the different prosthetic solutions depending on the level of amputation (type and own characteristics). Especially with regard to the use of prostheses and gait re-education. On the other hand, it is necessary to know the different most common musculoskeletal orthoses that we can find in clinical practice and what indication they will have.

Learning outcomes

1. Display knowledge of the processes for making and adapting upper and lower limb prostheses and trunk and limb orthoses.
2. Describe patients' functional needs to orthopaedic technicians, patients and the rest of the therapy team, taking into account the chances of making progress with orthoprosthetic technical aids.
3. Analyse and synthesise.
4. Organise and plan.
5. Easily recognise and cope with changes.
6. Show sensitivity to environmental issues.
7. Assess results and their relation to the objectives set, through real cases within the different clinical

specialisations.

8. Display teamwork skills, ability to work in coordination with the rest of the team, specifically with the prosthetist, the rehabilitation physician and, where appropriate with the occupational therapist.
9. Identify situations in which a change or improvement is needed.
10. Analyse a situation and identify its points for improvement.
11. Propose new methods or well-founded alternative solutions.
12. Weigh up the risks and opportunities of suggestions for improvement: one's own and those of others.
13. Propose new ways to measure success or failure when implementing innovative proposals or ideas.
14. Identify the social, economic and environmental implications of academic and professional activities within one's own area of knowledge.
15. Propose viable projects and actions to boost social, economic and environmental benefits.
16. Propose ways to evaluate projects and actions for improving sustainability.
17. Critically analyse the principles, values and procedures that govern the exercise of the profession.
18. Consider how gender stereotypes and roles impinge on the exercise of the profession.
19. Propose projects and actions that incorporate the gender perspective.
20. Communicate using language that is not sexist.
21. Identify the principal forms of sex- or gender-based inequality present in society.
22. 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.

Contents

Responsible for all topics: Ramon Rubio Galan and Pol Monné Cuevas

THEORY (35H)

- Topic 1: Amputee patient. Multidisciplinary team and assessment in physiotherapy.
- Topic 2: Epidemiology, causes and levels of upper extremity amputation.
- Topic 3: Upper extremity prosthesis.
- Topic 4: Rehabilitation phases in upper extremity amputation.
- Topic 5: Bases of training with contact electromyography for the use of myoelectric prostheses (pre-prosthetic phase).
- Topic 6: Physiotherapy treatment in upper extremity amputation in the different phases (pre-surgical, pre-prosthetic, prosthetic)
- Topic 7: Functional assessment of amputee patients.

- Topic 8: Concepts and treatment of pain in the amputee patient.
- Topic 9: Cardiovascular training, physical activity and sport in the amputee patient
- Topic 10: Stump bandage
- Topic 11: Clinical cases in the upper and lower extremity amputee patient.
- Topic 12: General concepts of orthotics and prosthetics. Materials in clinical orthopedics.
- Topic 13: epidemiology and causes of lower extremity amputation.
- Topic 14: Psychology in the amputee patient.
- Topic 15: Prosthesis for foot, tibial, femoral, disarticulated knee and hip amputations.
- Topic 16: Physiotherapy treatment in the lower extremity amputee patient.
- Topic 17: Alterations in gait and alignment in the lower extremity amputee patient.
- Topic 18: Osseointegration
- Topic 19: Most common upper and lower extremity orthoses of the musculoskeletal system.

SEMINARS (10H):

- Gait reeducation in the lower extremity amputee patient.
- Physiotherapy in the lower extremity amputee patient.

- Resolution of clinical cases by students.
- Practice of contact electromyography for upper extremity prosthesis.
- Stump bandage

Learning activities and methodology

Title	Hours	ECTS	Learning outcomes
READING ARTICLES / REPORTS OF INTEREST	15	0.6	1, 3, 4, 10, 11
HOMEWORKS	15	0.6	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 17, 19, 20
THEORY (TE)	35	1.4	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 17, 20
Specialized seminars (SEM)	10	0.4	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 17, 20
SELF-STUDY	73.5	2.94	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 19

The subject is divided into activities of theoretical classes, practical seminars, laboratory practices and autonomous work.

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.

Assessment

Continuous assessment activities

Title	Weight	Hours	ECTS	Learning outcomes
Written assessments: objective tests	40%	0.5	0.02	1, 2, 3, 4, 5, 7, 8, 9, 10, 11
Attendance and active participation in class and in seminars	20%	0.1	0.004	1, 2, 7, 8, 9, 10, 11, 13, 17, 18, 20
Delivery of written works	20%	0.5	0.02	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22
ORAL PRESENTATION/EXPOSITION OF WORKS	20%	0.4	0.016	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 17, 18, 20

Evaluation system

1. Continuous evaluation of group work and seminars (20% of the weight of the note). The class attendance and proactive attitude will be valued.

2. Written evaluation through objective tests (40% of the weight of the note). The test will consist of a test of 40 questions with 4 possible answers, only one of which is correct. The answer answered wrongly will be penalized with -25% of the value of the correct answer. It will be scheduled according to the calendar. Minimum mark to do average: 5/10

3. Oral defense of works (20% of the weight of the note). Minimum mark to do average: 5/10.

4. Delivery of reports / written work (20% of the grade). Minimum mark to do average: 5/10.

5. In the case of students who do not reach the minimum mark to average any of the evaluation activities, the evaluation activity in question will be considered as Not Evaluable.

6. Summary test: Multiple choice exam with 40 questions with 4 possible answers, only one of which is correct. The answer answered wrongly will be penalized with -25% of the value of the correct answer.

*Only for those students who have not passed the continuous assessment. Minimum mark to pass: 5. It will be scheduled according to the calendar.

Single evaluation

The student who chooses this route must know that:

- The evaluation evidence is the same and will have the same weight
- All the evidence will be evaluated on the same day (corresponding to the day of the subject exam, marked in the UAB exam calendar).
- The same recovery system will be applied as for the continuous evaluation
- The review of the final qualification follows the same procedure as for the continuous assessment.

Any irregularity during an assessment activity (academic fraud, plagiarism, or improper use of AI, unless such use is expressly authorized in the course syllabus) that may lead to a significant alteration of the grade will result in that assessment being awarded a mark of 0.

If the course syllabus stipulates that obtaining a minimum grade in that assessment activity is an essential requirement to pass the course, or if multiple irregularities occur in the assessment activities of the same course, the final grade for the course will be 0.

In addition, disciplinary proceedings may be initiated against any student who commits any of these irregularities.

Bibliography

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Software

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Course groups and languages

The information provided is provisional until November 30. After this date, you will be able to consult the language of each group through this [link](#). To access the information, you will need to enter the course CODE

Type of teaching	Group	Language	Semester	Shift
(TE) Theory	301	Catalan/Spanish	second semester	afternoon
(SEM) Seminars	301	Catalan/Spanish	second semester	afternoon