

COURSE DATA

Data Subject		
Code	35310	
Name	Physiotherapy applied to Speech Therapy	
Cycle	Grade	
ECTS Credits	4.5	
Academic year	2021 - 2022	

Degree	Center	Acad. year	Period
1203 - Degree in Speech Therapy	Faculty of Psychology and Speech	4	First term

Subject-matter					
Degree	Subject-matter	Character			
1203 - Degree in Speech Therapy	37 - Physiotherapy applied to speech therapy	Optional			

Coordination

Study (s)

Name	Department
ARNAL GOMEZ, ANNA	191 - Physiotherapy
VALERO PERIS, LUIS VICENTE	191 - Physiotherapy

SUMMARY

Physical Therapy applied to Speech and Language Therapy is a fourth-year elective subject where the student will know what Physical Therapy is, its characteristics and fundamental techniques and their application in patients with voice and language disorders in order to improve their communication potential. At the same time, students will learn both theoretical and practical functional assessment of vocal behavior, their main diseases and their treatment, emphasizing the rehabilitative function of Physical Therapy.



PREVIOUS KNOWLEDGE

Relationship to other subjects of the same degree

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

Other requirements

Subject without prerequisites.

COMPETENCES (RD 1393/2007) // LEARNING OUTCOMES (RD 822/2021)

1203 - Degree in Speech Therapy

- 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 lav audiences.
- Students must have developed the learning skills needed to undertake further study with a high degree of autonomy.
- Be able to carry out the rehabilitation of the speech and language disorder in different patients.
- Be able to determine the characteristics of a functional and comprehensive assessment of vocal behaviour.
- Have the ability to teach the patient the application of a physiotherapy treatment in certain pathologies associated with impaired speech and swallowing.
- Be competent in the assessment of orofacial alterations, which are of great importance in speech therapy practice.

LEARNING OUTCOMES (RD 1393/2007) // NO CONTENT (RD 822/2021)

Implement physiotherapy techniques used in speech therapy: kinesitherapy, massage, relaxation and electrotherapy.

Identify positions and other relevant characteristics musculoskeletal oral production.

Identify relevant aspects for the assessment and rehabilitation of communication disorders in cases of orofacial myofunctional disorders and dysphagia origin.



Apply physiotherapy techniques in certain diseases with language disorders.

DESCRIPTION OF CONTENTS

1. Introduction to Physical Therapy applied to Speech and Language Therapy.

- 1.1 Concept of Physical Therapy.
- 1.2 Specialized techniques: Kinesiotherapy and Massotherapy. Electrotherapy. Thermotherapy and cryotherapy. Hydrotherapy. Phototherapy.
- 1.3 Basic Concepts in Physiotherapy: reference planes and axis, posture, balance, muscle contraction types.

2. Musculoskeletal assessment applied the mouth and phonation system, the backbone and the respiratory system.

- 2.1 Assessment of muscle function on facial area, pharynx and oral area, and temporomandibular joint.
- 2.2 Assessment of the backbone: cervical tract, shoulder girdle, dorsal spine, lumbar spine and pelvic girdle.
- 2.3 Osteoarticular study of the rib cage and respiratory mechanics. Assessment on respiratory muscles and breathing types.

3. Physical Therapy techniques applied to Speech and Language Therapy (I).

- 3.1 Kinesitherapy: Basic Techniques and Special Techniques. General Indications and contraindications.
- 3.2 Massage: Basic Maneuvers and Special Maneuvers. Effects on the organism. General Indications and contraindications.
- 3.3 Relaxation: Advantages. Types of relaxation.
- 3.4 Thermotherapy and cryotherapy: applications. Indications and contraindications.

4. Physical Therapy techniques applied to Speech and Language Therapy (II).

- 4.1 Electrotherapy: effects, risks, types of electric current.
- 4.2 Neuromuscular bandage (kinesiotape): concept, physiological effects, application techniques. Indications and contraindications.
- 4.3 Respiratory Physiotherapy: objectives and techniques.

5. Physical therapy in disorders of voice and speech.



- 5.1 Systems involved in voice and speech production.
- 5.2 Contributions of physiotherapy in dysphonia: postural reeducation, relaxation, breathing pattern retraining, applying Kinesio Taping, exercises, massage.
- 5.3 Contributions of physiotherapy in speech alterations.
- 5.4 Physical therapy in laryngectomy.
- 5.5 Physical therapy in laryngeal paralysis.

6. Physical Therapy in Orofacial and swallowing disorders.

- 6.1 Physiotherapy in the cranio-mandibular dysfunction: main symptoms and signs, physiotherapy treatment.
- 6.2 Physiotherapy in neurogenic orofacial pain and postoperative pain.
- 6.3 Physiotherapy in facial paralysis.
- 6.4 Contributions of physiotherapy in the dysphagia: Concept and etiology, symptoms and signs, exploration of the various phases of swallowing, dysphagia assessment, rehabilitation techniques and facilitation.

WORKLOAD

ACTIVITY	Hours	% To be attended
Theory classes	30,00	100
Classroom practices	15,00	100
Attendance at events and external activities	0,00	0
Study and independent work	30,00	0
Preparation of practical classes and problem	22,50	0
Resolution of case studies	15,00	0
TOTAL	112,50	37/1/7/

TEACHING METHODOLOGY

The theoric classes of the subject will include lectures of the contents. Clinical cases will be studied, literature will be reviewed and different audiovisual methods will be used.

In the practical classes, we will rehearse and develop techniques and physical therapy procedures previously seen in lecture explains. The techniques will be done by couples where one takes the role of the patient and the other of the therapist.

Furthermore individualized tutoring and group will be made in order to supervise student in their learning process.



EVALUATION

- 1) Assessment of theoretical and practical content through oral, written or performance of skills, specifically through a retention test (70%).
- 2) Written presentation of reports, individual or group work, clinical cases, problem solving and management of diagnostic tests related to the activities of the practical sessions (30%).

Attendance at practices is compulsory, except for well-documented reasons, and to pass the course you will need to attend at least 80% of the classes. If not, the contents and activities carried out in the practical classes are considered recoverable through a written test that will be carried out at the end of the official final test.

The final grade for the course is obtained from the averaged sum of the grades for each part of the assessment, so it will be an essential requirement to pass the course to reach a minimum of 50% in each of the two assessment sections (written official test and activities of practical sessions).

REFERENCES

Basic

- Arias, C. (1993). Parálisis laríngeas, diagnóstico y tratamiento foniátrico de las parálisis cordales unilaterales en abducción. Masson: Barcelona.
- Bleeckx, D. (2004). Disfagia. McGraw-Hill. Interamericana: Madrid.
- Bustos, I. (1995). Tratamiento de los problemas de la voz. Cepe: Madrid.
- Torres, B., y Gimeno, F. La voz. (1995). Bases anatómicas. Autoedición médica JIMS: Barcelona.
- Zambrana, N., y Dalva, L. (1998). Logoepdia y orotpedia maxilar en la rehabilitación orofacial.
 Masson: Barcelona.

Additional

- Aramburu, C., Muñoz, E., e Igual, C. (1998). Electroterapia, termoterapia e hidroterapia. Síntesis: Madrid.
- Mora, E., y de Rosa, R. (1998). Fisioterapia del aparato locomotor. Síntesis. Madrid.

ADDENDUM COVID-19

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



1. CONTENTS

The contents stipulated in the Guide of both the theoretical and practical part of the subject are maintained.

2. WORK VOLUM AND TEMPORAL PLANNING TEACHING

The different activities that add up to the hours of dedication in ECTS credits marked in the original academic guide have been mantained in relation to: theory classes, practice classes, study and independent work, preparation of evaluation activities, preparation of theory classes and resolution of cases / practical activities. The theoretical and practical sessions will take place on the scheduled days and times.

3. TEACHING METHODOLOGY

- Face-to-face theory classes are replaced by Videoconferencing through Blackboard Collaborate. The materials for these sessions will be uploaded to the virtual platform (power-points, articles related to the subject, links to theoretical-practical illustrative videos and complementary materials).
- Debates and resolution of doubts in the Virtual Classroom Forum.
- Online support of the classes through instant messages of Virtual Classroom.
- General communication with students through News (Virtual Classroom).
- Tutoring system: the virtual tutoring program is maintained and tutorials are introduced through videoconferencing according to the availability of teachers.
- Same materials provided in the original guide for face-to-face teaching.

4. EVALUATION

The evaluation of the subject will be carried out by means of continuous evaluation (60%) and final test (40%).

Continuous evaluation will be applied, on the one hand, by activities proposed by the teachers during the course of the classes and related to each one of the treated contents: resolution of clinical cases for each subject, and reading and comments of scientific articles (30%). In addition, students must submit a final report (30%) which will consist of filling in forms or reports proposed by teachers with aspects and cases where they must use the contents of the subject in a global way.

The final assessment test will be a retention test (40%). The weight of this final exam is reduced from 70% to 40%. It will take place on the day and time initially proposed by the University of Valencia. This test will be carried out in person, if circumstances allow, or through "Questionnaires" of the Virtual Platform, in case it is necessary to perform it virtually due to the health situation. In the latter case, if there is a network outage, problems with the Internet connection or any other computer incident, an oral examination will be carried out by videoconference.



Teachers will be able to arrange a video conference to check any information regarding the exam or assessment activities.

It is maintained, as in the original teaching guide, the necessary requirement of a minimum grade of 5 in both parts (theory and practice) to average and obtain the final grade of the subject.

It is added to the addendum that the grade of the passed part of the subject (either theory or practice) will be saved for the second examination of the present course in case the student does not pass the whole subject in the first examination.

5. REFERENCES

No changes in relation to the original academic guide.

