

Applied Technological Innovation

Code: 101694
ECTS Credits: 6

Degree	Type	Year	Semester
2500893 Speech therapy	OT	4	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: No

Other comments on languages

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External teachers

Poden intervenir empreses externes a petició del docent

Prerequisites

User-level office automation.
Ability to use the different technological devices available (PC [Windows, Mac and / or Linux ...], mobile, tablet, etc.
Practices of previous courses and first semester of 4th year.

Objectives and Contextualisation

The student will have to acquire the ability to search and select ICT tools (Hardware and software) for any user of the speech therapy services (all specialties), and also for the administration of their query.
The student should know how to consider the real cost of using ICT in their work.
Through tools within the student's reach, this will have to be able to develop a TIC material in group to solve a real problem of a real patient (as detailed in the final evaluation activity).
The student will be able to communicate effectively to the rest of the class, both with their work and orally, the work carried out.
The student will be able to do a therapeutic reflection based on a clinical observation.
The student will be able to do a self-evaluation (in the oral presentation) about their evolution with the subject.

Competences

- Act appropriately with respect to the professions ethical code: respect professional confidentiality, apply professional criteria in the completion and referral of treatment.
- Analyse and synthesise information.

- Critically evaluate the techniques and instruments of evaluation and diagnosis in speech therapy, as well as its procedures of intervention.
- Demonstrate knowledge of the limits of competence and be able to identify whether interdisciplinary treatment is required.
- Explore, evaluate, diagnose and produce a prognosis of development for disorders of communication and language, from a multidisciplinary perspective.
- Integrate the foundations of biology (anatomy and physiology), psychology (evolutionary processes and development), language and teaching as these relate to speech-therapy intervention in communication, language, speech, hearing, voice and non-verbal oral functions.
- Managing communication and information technologies.
- Project design and management.
- Understand, integrate and relate new knowledge deriving from autonomous learning.

Learning Outcomes

1. Analyse and synthesise.
2. Collect and interpret all information obtained in anamnesis, physical examinations and complementary explorations.
3. Describe the main instruments of assessment and diagnosis in speech therapy and in related disciplines (neurology, neuropsychology, etc.), and identify their usefulness.
4. Describe the usefulness of applying computing resources to the prevention and treatment of language disorders.
5. Explain the limitations of instrumental exploration and interpretation when results are not consistent with the clinical data.
6. Managing communication and information technologies.
7. Project design and management.
8. Register and select the relevant information provided by the patient and/or those accompanying the patient.
9. Relate anatomical, physiological and neurochemical disorders of the nervous system with patients symptoms in the fields of communication, language, speech and eglutition.
10. Respect professional confidentiality.
11. Understand, integrate and relate new knowledge deriving from autonomous learning.

Content

The subject aims to arouse the clinical-therapeutic reflection of the student towards the resolution with ICT of the problems presented by the patients in the daily consultation as well as on the TIC tools necessary for the management of his task (accounting, taxation, histories clinics, reports, billing ...).

Being a subject on technology, and given the changing nature of this, the contents will be constantly adapted, even during the course, to the reality and expectations of the moment.

Methodology

In the theoretical section, the different therapeutic and management speech therapies will be reviewed in which the speech therapist needs or can complement your work with technological tools.

The practical part will be divided into two parts, one of direct observation of patients (well within the framework of the subject, according to availability of

patients, either in coordination with the practicum; and another part of the laboratory, optional, to support the development of ICT tools. In the case

that patients can not be available for the first part of the practice, it will be replaced by a TIC laboratory with a case proposal theoretical, and the second part by individualized tutoring at the request of the student, about the work to be done.

Activities

Title	Hours	ECTS	Learning Outcomes
Type: Directed			
Directed	24	0.96	1, 11, 3, 4, 7, 5, 2, 8, 9, 10, 6
Laboratory practices	12	0.48	1, 11, 4, 7, 2, 8, 9, 10, 6
Type: Supervised			
Supervised	15	0.6	1, 5, 6
Type: Autonomous			
Autonomous	72	2.88	1, 11, 7, 6

Assessment

INDIVIDUAL TASK:

Work on the functionalities that we would ask of a software for the management of our logopédico clinical consultation, on existing applications that can give these functionalities, and on alternative tools that we could use to solve these needs.

FINAL EXAM:

On-line test questions about the ICT modules seen in the theoretical sessions.

ASSISTANCE TO THE DIRECTED SESSIONS:

Effective attendance is requested and valued at 80% of the supervised sessions (Theoretical).

GROUP FUNCTION AND PUBLIC EXHIBITION FINAL WORK-:

The work group during the course of one of these options will be exposed to the class group:

- option 1: Elaborate in group a functional ICT material to solve a specific problem based on the practical experience of clinical observation and therapeutic reflection with a patient
- option 2: Develop a web page, real and active, and the activity built (with the corresponding tutorial, objectives, criteria). If the activity can be executed on the Internet, implement the possibility.

The subject will be considered as passed, when a weighted average note of 5 or more points has been obtained.

Recovery tests: Those students that have not achieved the established criteria to pass the subject and who have previously been evaluated in a set of activities will be able to perform any of the recovery tests whose weight equals to a minimum of Two thirds of the total grade of the subject. In order to take the recovery tests, the student must have obtained a minimum grade of 3.5 out of 10.

A student who has provided learning evidences with a weight equal to or greater than 4 points (40%) can not record in acts as "not evaluable"

Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
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ATTENDANCE TO DIRECTED SESSIONS	10%	18	0.72	1, 6
FINAL EXAM	30%	2	0.08	1, 11, 4, 7, 5, 2, 8, 9, 10, 6
GROUPAL WORK AND PUBLIC EXPOSITION FINAL TASK	30%	5	0.2	1, 11, 3, 4, 7, 5, 2, 8, 9, 10, 6
TASK INDIVIDUAL	30%	2	0.08	1, 11, 7, 2, 8, 10

Bibliography

Several web sources available in the virtual classroom will be consulted.

These sources can increase or decrease during the course depending on the technological evolution, both specific to speech therapy, and affine, as well as hardware technology and support or vehicle software.

We discard to provide traditional bibliography on existing softwares given the obsolescence of these and therefore of the bibliography that relates them.