PRACTICAL ADAPTATION OF COMPUTER TECHNIQUES IN DISABILITY

Degree in Occupational Therapy

Code: 804168
Module: 4
Subject: Practicum
Type of course: External Internships
Grade: Fourth
Department: Radiology, Rehabilitation and Physiotherapy.
Credits: 6 ECTS
Semester: Consult calendar
Period of study: Group B in the first four-month period, Group A in the second four-month period.
Detailed schedule: Thursdays from 16:30 to 19:30 h.
Place: Aula de Informática "Juan Negrín". Faculty of Medicine
Contact Email: jcalavia@ucm.es

TEACHING STAFF

Teacher responsible: José M. Calavia Balduz

BRIEF DESCRIPTION

When the student completes the course:

1. Will have verified the relevance and performance of new technologies as a resource for the occupational therapist, and therefore their usefulness for professional development in the healthcare environment.
2. Will be able to integrate and apply relevant knowledge of communication and information technologies and their clinical, teaching, research and management applications to the practice of occupational therapy.
3. Will be able to select, handle and correctly apply computer-assisted therapy technology for different types of functional diversities.
4. Will have the ability to design and manage research projects related to the profession.

COMPETENCIES

They are those corresponding to the Module and Subject to which this subject belongs.

General Competencies

- CG.05
- GC.08
- CG.10
- CG.18
- GC.19
- GC.21
- CG.24
- GC.25

Specific Competences

- CE.M1.3.
- CE.M1.6.
- CE.M2.4.
- CE.M2.7.
- CE.M2.10.
- CE.M2.11.
- CE.M2.15.
- CE.M2.16.
- CE.M2.17.
- CE.M2.19.
- CE.M2.20.
- CE.M2.21.
- CE.M2.23.
- CE.M2.24.
- CE.M2.25.
- CE.M2.28.
- CE.M3.1.
- CE.M3.3.
- CE.M4.1.
- CE.M4.2.

AGENDA

Topic 1. Precedents, current status and prospects for the development of IT as a support tool in Occupational Therapy.
Topic 2. Introduction to computer operation: general concepts.
Topic 3. Bibliographic searches and citations. Applications linked to research.
Topic 4. Clinical administrative support functions**.**
Theme 5. Computers applied to physical functional diversity.
Topic 6. Augmentative and alternative communication systems.
Topic 7. Analysis of activity over IT.
Topic 8. Computers applied to sensory diversities.
Topic 9. Virtual Reality and rehabilitation applications**.**
Topic 10. Video games and health.
Topic 11. Addiction to new technologies.
Topic 12. Social networks, digital natives and immigrants. Computers and mental health.
Topic 13. Mobile applications.
Topic 14. Computers and intellectual functional diversity**.**
Topic 15. Use of 3D printers. Splints and support products.

EVALUATION CRITERIA

The assessment of competences will be carried out through:

1. Attendance and participation in teaching activities. Presentation in the computer classroom of a topic related to the subject (in pairs).
2. Grading of the students' practical performance through the delivery of each of the practical exercises through the virtual campus or in the classroom (3 in total).
3. Theoretical final exam for students who have not passed the practical exercises. It will consist of a test, where the student have to indicate the true answer or answers. It will include a short essay question.
4. Participation in complementary training activities. Conferences, presentation of research work at undergraduate congresses, etc.
5. The final grade will be a weighted average of the grade of all classroom and non classroom training activities.

In order to pass the course, it will be necessary to attend 90%, make the three compulsory deliveries and the presentation of the subject in the classroom. There are three components of the student's final grade:

- Firstly, the result of the presentation, with a weight of 50% in the grade.
- Secondly, the result of the practical content deliverables with a weight of 30%.
- Finally, attendance and participation both on the virtual campus and in the classroom, with a weight of 20% in the final grade.

In accordance with the provisions of article 5 of Royal Decree 1125/2003, the results obtained by the student will be graded according to the following numerical scale from 0 to 10, with one decimal place, to which the corresponding qualitative grade may be added: 0-4.9: fail (SS). 5.0-6.9: pass (AP). 7.0-8.9: notable (NT). 9.0-10: outstanding (SB).

BIBLIOGRAPHY / RELATED INTERNET LINKS

- Hopkins, H. and Smith, H., Terapia Ocupacional, Panamericana, 1998.
- Pedretti, L.W. and Zoltan, B., Occupational Therapy, Mosby Co., 1990.
- Pratt, P.N.;Yallen, A.S., Occupational therapy for children, Mosby Co., 1989.
- Reed, K.L. and Sanderson, S.N., Concepts of occupational therapy, 3rd ed., Williams&Wilkins, 1992.
- Turner, A.; Foster, M. and Johnson, S., Occupational therapy and physical dysfunction. Principles, skills and practice, Churchill Livingstone, 3rd ed. 1992.
- Polonio López, B.; Durante Molina, P.& NoyaArnaiz, B., "Conceptosfundamentales de TerapiaOcupacional", Editorial Médica Panamericana, 2001, Madrid.
- Sánchez Montoya, R., "Ordenador y discapacidad". Ciencias de la educación preescolar y especial (CEPE), 2002, Madrid.
- García de Sola J.F.; Martínez Tomás. R., "Informática Básica", Editorial Alhambra Longman.

Websites

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