



Information about the subject

Degree: Bachelor of Science Degree in Occupational Therapy

Faculty: Faculty of Psychology

Code: 1121102 **Name:** Kinesiology

Credits: 6,00 **ECTS Year:** 1 **Semester:** 2

Module: BASIC TRAINING MODULE

Subject Matter: Physiology **Type:** Basic Formation

Field of knowledge: Health Sciences

Department: -

Type of learning: Classroom-based learning

Languages in which it is taught: Spanish

Lecturer/-s:

1121 Cesar Rubio Belmonte (**Responsible Lecturer**)

cesar.rubio@ucv.es



Module organization

BASIC TRAINING MODULE

Subject Matter	ECTS	Subject	ECTS	Year/semester
Human Anatomy	6,00	Structure and function of the human body I	6,00	1/1
Physiology	12,00	Kinesiology	6,00	1/2
		Structure and function of the human body II	6,00	1/2
Psychology	24,00	Basic Psychological Processes	6,00	1/2
		Developmental Psychology I	6,00	2/1
		Developmental Psychology II	6,00	2/2
		Psychology of the Personality	6,00	1/1
Anthropology	6,00	Anthropology	6,00	1/1
Social Moral-Deontology	6,00	Social Morality - Deontology	6,00	2/1
Science, Reason and Faith	6,00	Science, Reason and Faith	6,00	1/2

Recommended knowledge

There are no prerequisites. It is advisable to have studied and passed: Structure and Function of the human body 1



Learning outcomes

At the end of the course, the student must be able to prove that he/she has acquired the following learning outcomes:

- R1 The student knows and is able to appropriately use the subject-specific terminology.
- R2 The student is able to describe, relate and synthesize the fundamental concepts of Kinesiology.
- R3 The student knows and appropriately applies the biomechanical principles of human body movement in the analysis of occupational performance.
- R4 The student identifies and handles the techniques and instruments necessary to carry out an adequate kinesiological exploration of the locomotive system and is able to transcribe the results.
- R5 The student is able to evaluate qualitatively and quantitatively the results of the biomechanical analysis of the main activities of daily life, recognizing and interpreting the signs of function and dysfunction.



Competencies

Depending on the learning outcomes, the competencies to which the subject contributes are (please score from 1 to 4, being 4 the highest score):

GENERAL		Weighting			
		1	2	3	4
CG4	To recognise one's own limitations and the need to maintain and keep up to date one's professional competence, focusing specially on the importance of autonomous learning of knowledge and techniques and the desire for quality.		X		
CG5	To know, value critically and use the sources of information in order to obtain, organise, interpret and communicate the scientific, sanitary, socio-sanitary and information, preserving the confidentiality of the data.		X		
CG7	To understand and recognise the interrelationship between the concepts of wellbeing, health, significant occupation, dignity and participation.		X		
CG8	To understand and recognise the importance of contextual factors as determiners of occupational dysfunction and promote the right of individual/populations to satisfy their occupational needs.		X		
CG17	To recognise the influence of individual, religious, and cultural differences, as well as the customs about occupation and participation	X			
CG18	To acquire and develop skills and practical experience in a socio-sanitary and community context				X
CG22	To establish an assertive interpersonal communication with all the interlocutors that is relevant during the Occupational Therapy process.		X		
CG24	To transmit written and/or oral information to a specialised audience as well as a non-specialised one.		X		
SPECIFIC		Weighting			
		1	2	3	4



CE25 To know and understand the structure and functioning of the human body so students can evaluate, synthesise and apply Occupational Therapy treatments.

x



Assessment system for the acquisition of competencies and grading system

Assessed learning outcomes	Granted percentage	Assessment method
R1, R2, R3, R4, R5	50,00%	Written tests: Summative and final theoretical-practical test (open questions, objective test questions, truncated test, etc.) Preparation of field work memoranda, practical case solutions, single cases.
R1, R2, R3, R4, R5	30,00%	Presentation of group and individual works.
R1, R2, R3, R4, R5	20,00%	Individual monitoring of attendance at face-to-face sessions and active participation in theoretical and practical classes, seminars and tutorials.

Observations

Note: In order to pass the course, the student must pass each of the evaluation criteria separately. The official exam dates will be set by the Faculty Dean's Team according to the periods established in the academic calendar. For MODIFICATIONS OF DATES OF EXAMS consult the reasons that justify such modifications and the procedure in article 12 of the Examination Regulations. <https://www.ucv.es/Portals/0/documentos/normativa/20170526144309926.pdf> All submissions of individual and group assignments will be through the VIRTUAL CAMPUS of the UCV in the terms and forms established by the teacher of the course. Under no circumstances will late submissions be accepted. Tasks pending delivery will be submitted and assessed on the official date of the second call. A minimum of 75% of the attendance is required for the course grade to be computed. The attendance will be controlled through the VIRTUAL CAMPUS, only, at the beginning of each lesson. Absences must be justified by means of an official document scanned and sent through the VIRTUAL CAMPUS to the course teacher. Criteria to grant the honorific mention: -The honorific mention will be granted to the student who obtains a grade higher than 9 in the first call. -Attendance to classroom sessions, active participation and involvement in the theoretical and practical classes, as well as in the rest of the training activities by the student, candidate to receive the mention of honor, must reach the levels of excellence. -The honorific mention will be granted to students who have obtained a grade equal to or higher than 9.0. The number of mentions will not exceed 5% of enrolled students in a module in the academic year unless the number of enrolled students is below 20, in which case only one mention can be granted (Royal Decree 1125/2003).



Learning activities

The following methodologies will be used so that the students can achieve the learning outcomes of the subject:

- M1 ON-CAMPUS CLASS
- M2 PRACTICAL CLASSES
- M3 SEMINAR
- M4 GROUP PRESENTATION OF PAPERS
- M5 OFFICE ASSISTANCE
- M6 ASSESSMENT
- M7 GROUP WORK
- M8 INDEPENDENT WORK



IN-CLASS LEARNING ACTIVITIES

	LEARNING OUTCOMES	HOURS	ECTS
ON-CAMPUS CLASS: Teacher presentation of contents, analysis of competences, explanation and in-class display of skills, abilities and knowledge. M1	R1, R2, R3, R4, R5	29,00	1,16
PRACTICAL CLASSES: Group work sessions supervised by the professor. Case studies, diagnostic tests, problems, field work, computer room, visits, data search, libraries, on-line, Internet, etc. Meaningful construction of knowledge through interaction and student activity. M2	R3, R4, R5	10,00	0,40
SEMINAR: Supervised monographic sessions with shared participation M3	R4, R5	7,50	0,30
GROUP PRESENTATION OF PAPERS: Application of multidisciplinary knowledge M4	R4	7,50	0,30
OFFICE ASSISTANCE: Personalized and small group attention. Period of instruction and /or orientation carried out by a tutor to review and discuss materials and topics presented in classes, seminars, eadings, papers, etc. M5	R1, R2, R3, R4, R5	3,00	0,12
ASSESSMENT: Set of oral and/or written tests used in initial, formative or additive assessment of the student M6	R1, R2, R3, R4, R5	3,00	0,12
TOTAL		60,00	2,40



LEARNING ACTIVITIES OF AUTONOMOUS WORK

	LEARNING OUTCOMES	HOURS	ECTS
<p>GROUP WORK: Group preparation of readings, essays, problem solving, seminars, papers, reports, etc. to be presented or submitted in theoretical lectures, practical and/or small-group tutoring sessions. Work done on the university e-learning platform (www.plataforma.ucv.es)</p> <p>M7</p>	R1, R2, R3, R4, R5	40,00	1,60
<p>INDEPENDENT WORK: Student study: Group Individual preparation of readings, essays, problem solving, seminars, papers, reports, etc. to be presented or submitted in theoretical lectures, practical and/or small-group tutoring sessions. Work done on the university e-learning platform (www.plataforma.ucv.es)</p> <p>M8</p>	R1, R2, R3, R4, R5	50,00	2,00
TOTAL		90,00	3,60



Description of the contents

Description of the necessary contents to acquire the learning outcomes.

Theoretical contents:

Content block	Contents
DIDACTIC UNIT I: Foundations of Kinesiology and Biomechanics and its application to occupational therapy.	TOPIC 1: Biomechanics Model TOPIC 2: Joint movement TOPIC 3: Muscle function TOPIC 4: Bases of joint physiology, movement, balance and stability.
DIDACTIC UNIT II: Analytical kinesiology of the upper limb.	TOPIC 5. Joint movement and muscle function in shoulder. TOPIC 6. Joint movement and muscle function in Elbow and forearm. TOPIC 7. Joint movement and muscle function in Wrist. TOPIC 8. Joint movement and muscle function in the Hand.
DIDACTIC UNIT III: Analytical kinesiology in rachis and lower limb.	TOPIC 9. Joint movement and muscle function in Cervical, Thoracic and Lumbar Rachis. TOPIC 10. Joint movement and muscle function in Hip, Knee and Foot.
DIDACTIC UNIT IV: Kinesiological analysis of basic motor skills.	TOPIC 11. Posture: functional interaction pelvis and trunk. TOPIC 12. Kinesiology of the human gait. TOPIC 13. Biomechanical analysis in Daily Living Activities



Temporary organization of learning:

Block of content	Number of sessions	Hours
DIDACTIC UNIT I: Foundations of Kinesiology and Biomechanics and its application to occupational therapy.	4,00	8,00
DIDACTIC UNIT II: Analytical kinesiology of the upper limb.	10,00	20,00
DIDACTIC UNIT III: Analytical kinesiology in rachis and lower limb.	8,00	16,00
DIDACTIC UNIT IV: Kinesiological analysis of basic motor skills.	8,00	16,00

References

The materials for the preparation of the written test will be provided by the professor through the virtual UCV Campus.

Basic bibliography

- Kapandji A. (2011) Cuadernos de Fisiología articular. Médica Panamericana.
- Keough, Sain & Roller (2017). Kinesiology for the Occupational Therapy Assistant: Essential Components of Function and Movement. SLACK Incorporated.
- Rybski M. (2012). Kinesiology for Occupational Therapy. SLACK Incorporated.

Further reading

- Baumgarther T., Jackson A., Mahar M. & Rowe D. (2016). Measurement for evaluation in kinesiology. Jones y Barlett Learning.
- Cano, Martínez & Miengolarra (2016). Control y aprendizaje motor. Fundamentos, desarrollo y reeducación del movimiento humano. Madrid: Editorial Médica Panamericana.
- Greene, D.P. & Roberts, S.L. (2005). Kinesiology. Movement in the context of activity. Elsevier Mosby.
- Hislop, H.J. & Montgomery, J. (2003). Daniels & Worthingham. Técnicas de balance muscular. Elsevier, Saunders.
- Kendall, F.P. & Kendall, E. (2000). Músculos. Pruebas, funciones y dolor postural. Marbán Libros, S.L.
- Kielhofner G. (2006). Fundamentos conceptuales de la terapia ocupacional. Médica Panamericana.
- Muscolino J. (2011). Kinesiology. The skeletal system and muscle function. Elsevier Mosby.



Addendum to the Course Guide of the Subject

Due to the exceptional situation caused by the health crisis of the COVID-19 and taking into account the security measures related to the development of the educational activity in the Higher Education Institution teaching area, the following changes have been made in the guide of the subject to ensure that Students achieve their learning outcomes of the Subject.

Situation 1: Teaching without limited capacity (when the number of enrolled students is lower than the allowed capacity in classroom, according to the security measures taken).

In this case, no changes are made in the guide of the subject.

Situation 2: Teaching with limited capacity (when the number of enrolled students is higher than the allowed capacity in classroom, according to the security measures taken).

In this case, the following changes are made:

1. Educational Activities of Onsite Work:

All the foreseen activities to be developed in the classroom as indicated in this field of the guide of the subject will be made through a simultaneous teaching method combining onsite teaching in the classroom and synchronous online teaching. Students will be able to attend classes onsite or to attend them online through the telematic tools provided by the university (videoconferences). In any case, students who attend classes onsite and who attend them by videoconference will rotate periodically.

In the particular case of this subject, these videoconferences will be made through:

☒ Microsoft Teams

☒ Kaltura



Situation 3: Confinement due to a new State of Alarm.

In this case, the following changes are made:

1. Educational Activities of Onsite Work:

All the foreseen activities to be developed in the classroom as indicated in this field of the guide of the subject, as well as the group and personalized tutoring, will be done with the telematic tools provided by the University, through:

☒ Microsoft Teams

☒ Kaltura

Explanation about the practical sessions:



2. System for Assessing the Acquisition of the competences and Assessment System

ONSITE WORK

Regarding the Assessment Tools:

☒ The Assessment Tools will not be modified. If onsite assessment is not possible, it will be done online through the UCVnet Campus.

☐ The following changes will be made to adapt the subject's assessment to the online teaching.

Course guide		Adaptation	
Assessment tool	Allocated percentage	Description of the suggested changes	Platform to be used

The other Assessment Tools will not be modified with regards to what is indicated in the Course Guide.

Comments to the Assessment System: