

Year 2023/2024

240203 - Physiotherapy of the Nervous System

Information about the subject

Degree: Bachelor of Science Degree in Physiotherapy

Faculty: Faculty of Medicine and Health Sciences

Code: 240203 Name: Physiotherapy of the Nervous System

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

Module: MODULE 2: SPECIFIC

Subject Matter: Specific Methods of Intervention in Physical Therapy Type: Compulsory

Field of knowledge: Health Sciences

Department: -

Type of learning: Classroom-based learning

Languages in which it is taught: Spanish

Lecturer/-s:

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Module organization

MODULE 2: SPECIFIC

| Subject Matter | ECTS | Subject | ECTS | Year/semester |
|--|-------|---|------|---------------|
| Fundamentals of Physical Therapy | 6,00 | Fundamentals of Physiotherapy | 6,00 | 1/1 |
| Assessment in Physiotherapy | 6,00 | Assessment in Physiotherapy | 6,00 | 1/2 |
| General Procedures for Intervention in Physiotherapy | 12,00 | General Procedures of Intervention I | 6,00 | 2/1 |
| | | General Procedures of Intervention II | 6,00 | 2/2 |
| Physiotherapy in clinical specialties | 6,00 | Medical-Surgical Conditions and their Treatments | 6,00 | 2/2 |
| Specific Methods of Intervention in Physical Therapy | 30,00 | Cardiocirculary and Respiratory Physiotherapy | 6,00 | 3/1 |
| | | Physiotherapy of the Locomotive System I | 6,00 | 2/2 |
| | | Physiotherapy of the Locomotive system II | 6,00 | 3/1 |
| | | Physiotherapy of the Nervous System | 6,00 | 2/2 |
| | | Sports Physiotherapy | 6,00 | 3/1 |
| Kinesitherapy | 6,00 | Kinesitherapy | 6,00 | 2/1 |
| Legislation, Public Health and Health Administration | 12,00 | Community Physiotherapy and Public Health | 6,00 | 3/1 |



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Legislation, Public Health and Health Administration Social Morality. Ethics

6,00

4/1

Recommended knowledge

Have adequate knowledge about:

- · Neuroanatomy and Neurophysiology
- Assessment in Physiotherapy

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 Knows the foundations of the different pathologies of the Nervous System, as well as the multidisciplinary work in them.
 R2 Distinguishes the different hierarchies and priorities in the health care of patients.
- R3 Knows and distinguishes the different physical and emotional components of the patients, and their relationship with the health-disease process.
- R4 Knows and applies techniques and procedures of assistance and conservative treatment, in diseases of the nervous system.
- R5 Knows and applies techniques and procedures for physiotherapeutic assessment and diagnosis, in diseases of the nervous system.
- R6 Looks for bibliographic information from different sources and knows how to analyze it with a critical and constructive spirit.
- R7 Argues with rational criteria from the work.
- R8 The student is able to write a comprehensible text, organized on topics related to physiotherapy and to work in groups.



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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):

| BASIC | | Weighting | | | 3 |
|-------|--|-----------|---|---|---|
| | | 1 | 2 | 3 | 4 |
| CB1 | Students demonstrate knowledge and understanding in an area of study that is at the core of general secondary education, and is often at a level that, while supported by advanced textbooks, also includes some aspects that involve knowledge from the cutting edge of their field of study. | | X | | |
| CB2 | Students know how to apply their knowledge to their work or vocation in a professional way and possess the skills usually demonstrated by developing and defending arguments and solving problems within their area of study. | | | X | |
| CB3 | Students have the ability to gather and interpret relevant data (usually within their area of study) to make judgments that include reflection on relevant social, scientific or ethical issues. | | x | 4 | |
| CB4 | Students can convey information, ideas, problems and solutions to both specialized and non-specialized audiences. | | | X | |
| CB5 | Students develop those learning skills necessary to undertake further studies with a high degree of autonomy. | | | x | |

| PECII | FIC | Weighting |
|-------|---|-----------|
| | | 1 2 3 4 |
| CE1 | Students learn human anatomy and physiology, highlighting the dynamic relations between structure and function, especially of the locomotive system and the nervous and cardio-respiratory systems. | x |
| CE2 | Students identify the physiological and structural changes that can occur as a result of the application of physiotherapy. | x |
| CE8 | The psychological and social factors that influence the health/disease status of the individual, family and community. | x |



| CE9 | Students assimilate theories of communication and interpersonal skills. | X | | | |
|------|--|---|---|---|---|
| CE12 | The general aspects of pathology of endogenous and exogenous etiology related to physiotherapy of all devices and systems with their medical, surgical, physiotherapeutic and orthopedic treatments. | | X | | |
| CE13 | The structural, physiological, functional and behavioral changes that occur as a result of the intervention of physiotherapy. | | | X | |
| CE14 | Students identify the theoretical bases of Physiotherapy as a science and profession. The models of action in Physiotherapy. The theoretical bases of the assessments, tests and functional verifications: knowledge of their modalities and techniques as well as the scientific evaluation of their utility and effectiveness. The diagnosis of Physiotherapy. Methodology of the research applied to Physiotherapy. | | | X | |
| CE15 | General physiotherapeutic procedures: Kinesitherapy, Massage and Massage Therapy, Electrotherapy, Magnetic Therapy, Ergotherapy, Hydrotherapy, Balneotherapy, Climatotherapy, Thalassotherapy; Thermotherapy, Cryotherapy, Vibrotherapy, Phototherapy, Pressotherapy, and the derivatives of other physical agents | X | | | |
| CE16 | Physiotherapeutic Procedures based on specific Methods and Techniques of physiotherapeutic actions to be applied in the different pathologies of all the apparatuses and systems, and in all the specialties of Medicine and Surgery, as well as in the promotion and conservation of the health, and in the prevention of the disease. | | | | X |
| CE21 | Students give proof of the criteria and indicators that guarantee the quality in the provision of the physiotherapy service, through the use of good clinical practice guidelines and professional standards. | | x | | |
| CE28 | Students prepare and systematically fill in the complete Physiotherapy Clinical History, where all the steps followed from the reception of the patient/user to the report at the discharge of Physiotherapy are properly and efficiently recorded. | | | x | |
| CE29 | Students assess the functional state of the patient/user, considering the physical, psychological and social aspects. | | | | X |
| CE30 | Students determine the Physiotherapy Diagnosis according to the internationally recognized standards and international validation instruments. This competency includes prioritizing the needs of the patient/user to attend with priority to those that most compromise the recovery process. | | | x | |



| CE31 | Students know how to design the Physiotherapy Intervention Plan. To elaborate a specific Physiotherapy Intervention Plan using problem-solving skills and clinical reasoning: in line with the available resources; formulating the intervention objectives with the user and, if appropriate, with the significant people in his environment, collecting his expectations regarding care; selecting the protocols or procedures most appropriate to the planned care, attending to criteria of appropriateness, validity and efficiency. | | | | x |
|------|---|---|---|---|---|
| CE41 | Students keep the foundations of the knowledge, skills and attitudes of the professional competences updated, through a process of continuous training (throughout life); to critically analyse the methods, protocols and treatments of the care in Physiotherapy and to ensure that they are adapted to the evolution of scientific knowledge. | | x | | |
| CE47 | Students maintain an attitude of learning and improvement. This includes expressing interest and acting in a constant search for information and professional improvement, committing to contribute to professional development in order to improve practice competence and maintain the status that corresponds to a qualified and regulated profession. | | | X | |
| CE51 | Show respect, appreciation and sensitivity to the work of others. | | | x | |
| CE52 | Develop the ability to organize and lead work teams effectively and efficiently. | x | | | |
| CE55 | Show its orientation towards the patient/user, making it clear in its actions that the citizen and his/her needs are the axis around which its decisions revolve. As can be seen, some of the competencies that we have gathered as specific coincide in their denomination and contents with certain transversal competencies, but we have decided to incorporate them as specific competencies, given the extraordinary importance that national and international Professional Associations and Colleges confer on them | X | | | |

| TRANSVERSAL | Weighting |
|----------------------|-----------|
| | 1 2 3 4 |
| CT1 Decision-making | x |
| CT2 Problem solving. | x |
| | |



| CT3 | Capacity for organization and planning. | X | | |
|------|--|---|---|--|
| CT4 | Analysis and synthesis capacity. | | X | |
| CT5 | Oral and written communication in the native language. | | X | |
| CT6 | Information management capacity. | x | | |
| СТ9 | Ethical commitment. | X | | |
| CT10 | Teamwork. | | x | |
| CT11 | Interpersonal relationship skills. | X | | |
| CT13 | Critical Reasoning | X | | |
| CT16 | Motivation for quality | X | | |
| CT17 | Adaptation to new situations. | | | |
| CT18 | Creativity | | 4 | |
| CT19 | Autonomous learning | | X | |
| CT21 | Leadership. x | | | |





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Assessment system for the acquisition of competencies and grading system

| Assessed learning outcomes | Granted percentage | Assessment method |
|-------------------------------|--------------------|--|
| R1, R2, R3, R4, R5, R7, R8 | 20,00% | OPEN QUESTIONS: Written exam in which theoretical knowledge and the student's ability to relate, integrate and express it coherently in written language are evaluated. It allows the following generic or transversal skills to be assessed: 4 Capacity for analysis and synthesis. 3 Capacity for organisation and planning. 5 Oral and written communication in the native language. 8 Knowledge of a foreign language. 2 Problem-solving 19 Autonomous learning. |
| R1, R2, R3, R4, R5 | 30,00% | TEST TYPE: Multiple choice test with one correct answer out of five possible ones. It allows the student to know in greater detail the contents acquired by him/her. It allows the following generic or transversal competences to be assessed: 2 Problem solving 1 Decision making 13 Critical thinking |
| R4, R5, R7 | 10,00% | PRACTICES: Oral test in which the student is asked to solve practical exercises, clinical cases or problems about the knowledge of the different subjects. It assesses the following generic or transversal competences: 4 Analysis and synthesis capacity. 3 Capacity for organisation and planning. 7 IT Knowledge. 6 Information management skills. 2 Problem-solving 1 Decision-making. 13 Critical thinking. 19 Self-directed learning. |



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R6, R8

10,00%

WORKS: The student, individually or in a group, elaborates a revision or research topic and presents it, in writing, for the evaluation by the teacher. The following generic or transversal competences are valued: 4 Capacity for analysis and synthesis. 3 Capacity for organisation and planning. 7 Computer Information management skills. skills. Teamwork. 14 Working in an international context. Interpersonal skills. 13 Critical thinking. Autonomous learning, 18 Creativity, 21 Leadership. 20 Initiative and entrepreneurship. 16 Motivation for Quality. 70 Maintaining an attitude of learning and improvement. 72 Knowing one's own skills and limitations.

R4, R5, R7

30,00%

PRACTICAL EXAM: The student is faced with a test in which s/he must demonstrate through practical application the acquisition of certain knowledge. For example, histological or anatomopathological diagnosis, image interpretation or diagnostic tests. This test evaluates the following generic transversal skills: 13 Critical reasoning. Autonomous learning.

Observations

MINIMUM REQUIREMENTS:

Note: It is essential to pass the 2 tests with a 5 (theoretical, practical) and have submitted the directed work, to be able to do an average.

Evaluation criteria

- a) First call:
- 1. Theoretical evaluation: = (A + B) The result of the examination will be the sum of the parts Evaluation of test questions (30% of the final grade): It will consist of 30-40 multiple-choice questions. Evaluation open questions (20% of the final grade): a clinical case will be formulated. The minimum grade to pass the theoretical evaluation will be 5 out of 10. This evaluation must be approved in order to be evaluated in the practical part.

Practical assessment Practical exam (40% of the final grade): the demonstration of 1-2 practical maneuvers from all the views will be requested during the practical sessions of the subject. The practical evaluation will be carried out at the end of the semester through a practical exam. The minimum grade to pass the practical evaluation will be 5 out of 10.

Only if the student passes the written test can they access the practical test.

The practical test will be evaluated by means of a rubric (which will be explained on the first day of class and they will have access to it on the platform), which includes the following sections: "Selection of the technique (1 points), argumentation of the technique (2 points), application of the



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technique (3 points), technical language (2 points) and time spent developing the technique (2 points) "

Group work and exhibition (10% of the final grade): They may be reading articles, individual or group work. The works delivered after the deadline will not be suitable.
b) 2nd Call.

Both the written test and the practical tests have the same structure and percentage.

MENTION OF DISTINCTION:

According to Article 22 of the Regulations governing the Evaluation and Qualification of UCV Courses, the mention of "Distinction of Honor" may be awarded by the professor responsible for the course to students who have obtained, at least, the qualification of 9 over 10 ("Sobresaliente"). The number of "Distinction of Honor" mentions that may be awarded may not exceed five percent of the number of students included in the same official record, unless this number is lower than 20, in which case only one "Distinction of Honor" may be awarded.

Learning activities

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

| M1 | Master class Problem solving Exposition of contents by the teacher. Explanation of knowledge and skills |
|-----|---|
| M2 | Case resolution: Analysis of sample realities - real or simulated - that allow the student to connect theory with practice, to learn from models of reality or to reflect on the processes used in the cases presented. |
| M4 | Personalized attention. Period of instruction and/or guidance by a tutor with the aim of analyzing with the student their work, activities and their evolution in learning the subjects. |
| M5 | Set of tests carried out to know the degree of acquisition of knowledge and skills of the student. |
| M11 | Oral presentation |
| M12 | Group work: Group work sessions supervised by the teacher. Knowledge construction through student interaction and activity. |
| M14 | Group work to search, discuss and filter information about the subjects |
| M15 | Seminar, supervised monographic sessions with shared participation |



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M16 Student's study: Individual preparation of readings, essays, problem solving, seminars.

IN-CLASS LEARNING ACTIVITIES

| | LEARNING OUTCOMES | HOURS | ECTS |
|----------------------------------|-----------------------------------|-------|------|
| Theoretical lessons | R1, R2, R3, R4, R5, R6, R7, R8 | 32,00 | 1,28 |
| Practice lessons M2, M12, M15 | R2, R4, R5, R7 | 14,00 | 0,56 |
| Seminar M15 | R1, R2, R3, R4, R5, R7 | 6,00 | 0,24 |
| Office Hours M4 | R1, R2, R3, R4, R5, R6, R7 | 5,00 | 0,20 |
| Assessment M5, M11 | R1, R2, R3, R4, R5, R6, R7 | 3,00 | 0,12 |
| TOTAL | | 60,00 | 2,40 |

LEARNING ACTIVITIES OF AUTONOMOUS WORK

| | LEARNING OUTCOMES | HOURS | ECTS |
|---------------------|--------------------|-------|------|
| Autonomous work M16 | R1, R2, R3, R4, R5 | 70,00 | 2,80 |
| Group work M14 | R6, R7 | 20,00 | 0,80 |
| TOTAL | | 90,00 | 3,60 |



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Description of the contents

Description of the necessary contents to acquire the learning outcomes.

Theoretical contents:

Content block Contents

DIDACTIC UNIT I: GENERAL AND ANATOMOPHYSIOLOGICAL RECORD

Unit1. Introduction to neurological physiotherapy. Unit 2.Neuroanatomy and functional neurophysiology applied

DIDACTIC UNIT II: ASSESSMENT AND EVALUATION OF THE NEUROLOGICAL PATIENT

Unit 3 Neurological assessment. Unit 4 Complementary examinations and general evaluation of the neurological patient. CIFUnit 5 Assessment of movement and gait. Unit 6. Motor Control Unit 7. Motor Learning

DIDACTIC UNIT III: PHYSIOTHERAPY IN LARGE NEUROLOGICAL SYNDROMES AND BRAIN INJURIES.

Unit 8. Fundamentals of physiotherapy in patients with acquired brain damage: head trauma. UNIT 9. ACV. Fundamentals of physiotherapy in the patient with cerebrovascular accident. Hemiplegia Evaluation and treatment.UNIT 10. Fundamentals of physiotherapy in extrapyramidal and cerebellar disorders. Basal ganglia diseases. Parkinson's disease Koreas Athetosis DystoniaUNIT 11. Fundamentals of physiotherapy in patients with multiple sclerosis. Specific problems. Clinical picture and clinical forms. Initial balance. Deformity prevention. Muscle enhancement Fight against hypertonia. UNIT 12. Fundamentals of physiotherapy in patients with E.L.AUNIT 13. Fundamentals of physiotherapy in traumatic spinal cord injuries. Physiotherapy and spinal cord injury: History, therapeutic possibilities. Phases and effects of spinal cord injury. Problems in the bedding period. Surgical indications. Subacute phase: sitting, standing, walking

DIDACTIC UNIT IV: INTRODUCTION TO PHYSIOTHERAPY IN CHILDHOOD NEUROLOGICAL INJURIES.

UNIT 14. Fundamentals of physiotherapy in patients with P.C.I.UNIT 15. Fundamentals of physiotherapy in patients with BIFFINE SPINE and hydrocephalusUNIT 16. Rare diseases and congenital syndromes that present with neurological alterations(differential diagnosis in pregnancy: Down, Patau and Edwards)



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DIDACTIC UNIT V: INTRODUCTION TO THE TECHNIQUES IN PHYSIOTHERAPY OF THE NERVOUS SYSTEM UNIT 15. Fundamentals and technique of the Bobath treatment method.UNIT 16. Fundamentals and technique of the treatment method of H. Kabat or Proprioceptive Neuromuscular Facilitation.UNIT 17. Fundamentals and techniques in neurological physiotherapy: Petö or Conductive Education method, Vojta or Reflex Locomotion method, Perfetti method.UNIT 18. Restrictive hand therapy, motor imaging, mirror therapyUNIT 19. Therapeutic exercise in neurological patients

DIDACTIC UNIT VI: PHYSIOTHERAPY IN PERIPHERAL INJURIES.

UNIT 20. Fundamentals of physiotherapy in patients with PERIPHERAL NERVOUS PATHOLOGY.UNIT 21. Fundamentals of physiotherapy in patients with polyneuropathies

DIDACTIC UNIT VII.- PRACTICES

- 1. Evaluation of the neurological patient.
- 2. Neuromotor analysis of movement.
- 3. Fundamentals of the KABAT method
- 4. Motor control, balance and gait.
- 5. Therapeutic Exercise in neurological patient.
- 6. Motor imagery, mirror therapy.
- 7. Neuromuscular Bandage in neurological pathology



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Temporary organization of learning:

| Block of content | Number of sessions | Hours |
|---|--------------------|-------|
| DIDACTIC UNIT I: GENERAL AND ANATOMOPHYSIOLOGICAL RECORD | 1,00 | 2,00 |
| DIDACTIC UNIT II: ASSESSMENT AND EVALUATION OF THE NEUROLOGICAL PATIENT | 7,00 | 14,00 |
| DIDACTIC UNIT III: PHYSIOTHERAPY IN LARGE NEUROLOGICAL SYNDROMES AND BRAIN INJURIES. | 6,00 | 12,00 |
| DIDACTIC UNIT IV: INTRODUCTION TO PHYSIOTHERAPY IN CHILDHOOD NEUROLOGICAL INJURIES. | 2,00 | 4,00 |
| DIDACTIC UNIT V: INTRODUCTION TO THE TECHNIQUES IN PHYSIOTHERAPY OF THE NERVOUS SYSTEM | 5,00 | 10,00 |
| DIDACTIC UNIT VI: PHYSIOTHERAPY IN PERIPHERAL INJURIES. | 2,00 | 4,00 |
| DIDACTIC UNIT VII PRACTICES | 7,00 | 14,00 |



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References

- 1.PAUL A. YOUNG, PAUL H. YOUNG. Neuroanatomía clínica funcional. Baltimore: Masson; 2001.
- 2.MARÍA PELLICER ALONSO Y COLS. Fisioterapeutas de instituciones sanitarias. Sevilla: MAD; 2000.
 - 3.L. LÓPEZ-DURÁN STERN. Traumatología y ortopedia. Madrid: Luzán 5; 1998.
 - 4.BOBATH, B. Hemiplejia del adulto. Bs. Aires: Panamericana; 1993.
 - 5.BRUNNSTROM, S. Reeducación motora del hemipléjico. Barcelona: Jims; 1979.
- 6.CARR/SHEPHERD. Fisioterapia de los trastornos cerebrales. Bs Aires: Panamericana; 1985.
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 - 8. VIEL, E. El método Kabat. Barcelona: Masson; 1989.
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 - 10.BISBE, M; SANTOYO, C, Fisioterapia en neurología. Panamericana. 2012
 - 11.CANO DE LA CUERDA; COLLADO VAZQUEZ. Neurorrehabilitación. Panamericana. 2012
- 12. Movilización Neuromeníngea: tratamiento de los trastornos mecanosensitivos del sistema nervioso. Autor: E. Zamorano. Editorial medica Panamericana.
- 13.La facilitación Neuromuscular Propioceptiva en la Práctica. Autores: Adler. Beckers. Buck. Editorial medica Panamericana.
 - 14.El principio. Autor Václav Vojta. Editorial Springer Verlag Iberica.
 - 15. Experiencias con el Concepto Bobath. Fundamentos, tratamientos y casos.
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 - 20. Paeth B. Experiencias en el Concepto Bobath. Panamericana, 2006.
- 21. Stokes M, Stack E. Fisioterapia en la rehabilitación neurológica. London: Elsevier Health Sciences Spain; 2014.



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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.

<u>Situation 1: Teaching without limited capacity</u> (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.

<u>Situation 2: Teaching with limited capacity</u> (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:

Kaltura

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.

| n the pa | articular case of this subjec | t, these | videoconferences w | ill be made through: |
|----------|-------------------------------|----------|--------------------|----------------------|
| Х | Microsoft Teams | | | |
| | | | | |



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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:

| X | Microsoft Teams | | |
|---------|-------------------------------------|--|--|
| | Kaltura | | |
| | | | |
| Explana | ation about the practical sessions: | | |

The practical classes change in terms of how they are taught. There will be practical theoretical classes where the

Students will carry out the techniques studied in class in their homes. Students will be asked to upload some

video of technique realization to the platform



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

ONSITE WORK

| Regardir | ng 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. |
| X | 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 |
| TEST TYPE TEST | 30 | TEST TYPE TEST | 30 |
| OPEN QUESTION | 20 | OPEN QUESTION | 20 |
| WORKS | 10 | WORKS | 10 |
| PRACTICAL EXAM AND PRACTICES | 40 | PRACTICAL EXAM AND PRACTICES | 40 |

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

Comments to the Assessment System:

