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|  <p>escoles universitàries gimbernat i Tomàs Cerdà</p> <p>ADSCRITA A LA UPMB</p> | <p>MASTER'S DEGREE IN PHYSIOTHERAPY OF THE THORAX COURSE GUIDE</p> | <p>EUIF GIMBERNAT Physiotherapy</p> |
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Master's Degree in PHYSIOTHERAPY OF THE THORAX

Module Course Guides

Academic year 2021-2022

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|  | MASTER'S DEGREE IN PHYSIOTHERAPY OF THE THORAX COURSE GUIDE | EUIF GIMBERNAT Physiotherapy |
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GENERAL INFORMATION

MODULE INFORMATION

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|-------------------|---|---------------|-------------------|
| Module | 1. ANATOMY, PHYSIOLOGY, THORACIC EXPLORATION AND ASSESSMENT AND PHYSIOTHERAPY TECHNIQUES | | |
| Code | 43048 | Academic year | 2021-2022 |
| ECTS credits | 9 | Module type | Compulsory |
| Year | 1 | Term | 1 |
| Timetable | Available to students enrolled on this module via the virtual campus | | |
| Teaching language | Catalan, Spanish and French | | |

FACULTY DATA

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| Tutorial Schedule | To Be Arranged |

PREREQUISITES

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| <ul style="list-style-type: none"> There are no official prerequisites |
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MODULE CONTEXTUALIZATION

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| <p>This module aims to provide students with the specialised concepts in anatomy, physiology, biomechanics and kinesiology that will allow them to understand the mechanisms and foundations of cardiorespiratory physiotherapy. It also provides advanced tools that enable students to assess their patients, further their knowledge and acquire the skills required for the systematic collection of data and its appropriate application in physiotherapy.</p> |
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COMPETENCIES AND LEARNING OUTCOMES

Specific Competencies

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| Competency | E01 Recognise and differentiate the anatomical, biomechanical, physiological and pathological changes produced by different disorders of the cardiorespiratory system. |
| Learning outcomes | E01.01 Identify the structures of the cardiorespiratory system in adults. E01.02 Interpret the physiological and biomechanical processes of the cardiorespiratory system under normal conditions and under stress. E01.03 Interpret lung function tests and their results. |

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| Competency | E02 Evaluate the patient with the objective of determining the level of impairment of the cardiorespiratory system and its functional impact. |
| Learning outcomes | E02.01 Collect data from the static and dynamic exploration of a normal and pathological thorax. E02.02 Interpret the data from the static and dynamic exploration of the pathological thorax using actual images. E02.03 Interpret the semiology of the auscultation of the thorax. E02.04 Interpret the anatomical structures and basic pathology of the thorax through radiological images. E02.05 Formulate the physiotherapy diagnosis. |

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| Competency | E05 Recognise appropriate validated variables in order to objectivise the results of the physiotherapy treatment. |
| Learning outcomes | E05.01 Identify relevant variables through the reading of articles and clinical cases. |

General/Transversal Competencies (learning outcomes are not required)

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| Competency | GT01 Analyse, synthesise and make decisions using clinical cases. |
| Learning outcomes | GT01.01 Revise the physiological foundations upon which manual and instrumental physiotherapy techniques are based. |

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| Competency | GT02 Develop group work characteristics. |
| Learning outcomes | GT02.01 Develop active participation and empathy during group work in the classroom. GT02.02 Understand the role of the physiotherapist within the multidisciplinary team. |

Basic Competencies (learning outcomes are not required)

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| Competency | CB06 Possess and understand knowledge that provides a basis or opportunity for originality in the development and/or application of ideas, often in a research context. |
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| Competency | CB07 Students should know how to apply acquired knowledge and their problem-solving ability in new or relatively unknown environments within broader (or multidisciplinary) contexts related to their area of study |
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| Competency | CB08 Students should be able to integrate knowledge and tackle the complexity of making judgements based on information that may be incomplete or limited and includes reflections on the ethical responsibilities associated with the application of their knowledge and judgements |
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| Competency | CB10 Students should possess the learning skills that enable them to continue studying in a manner that is largely self-guided or autonomous |
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CONTENTS

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| <ol style="list-style-type: none"> 1. Respiratory tract: conducting portion, respiratory portion 2. Ventilatory mechanism, rib cage movement, muscular action 3. Lung function, ventilation, perfusion, pulmonary and peripheral interchange, acid-base balance, pulmonary mechanics, ventilation control 4. Physiology of effort: foundations, metabolism, cardiorespiratory adaptation, evaluation 5. Functional respiratory exploration: spirometry, volumes and diffusion, interpretation 6. Ventilation and muscle chains 7. Technical considerations and radiological anatomy of the adult and paediatric thorax 8. Basic radiological signs 9. Radiological interpretation: according to different techniques and pathologies |
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10. Evaluation, diagnosis and therapeutic project on someone with a cardiorespiratory disorder, history of physiotherapy
11. Updates regarding manual and instrumental ventilation and drainage technique
12. Autogenic drainage

TEACHING METHODOLOGY AND FORMATIVE ACTIVITIES

Directed activities:

Lectures with ICT support
 Problem-based learning
 Classroom work
 Workshops
 Laboratory work

Supervised activities:

Cooperative learning
 Debates
 Tutorials (request by sending an email to the coordinator, or directly to the lecturer if indicated to do so)

Self-directed activities:

Resolution of cases virtually
 Elaboration of written work
 Personal study and reading of articles

| TYPE OF ACTIVITY | ACTIVITY | LEARNING OUTCOMES | HOURS OF STUDENT DEDICATION |
|--------------------------|--|--|-----------------------------|
| Directed activities | Theoretical-practical presentations | E01.01, E01.02, E01.03, E02.01, E02.02, E02.03, E02.04, E02.05, GT01.01 | 82 |
| Supervised activities | Practical, individual or collective activities | E01.01, E01.02, E01.03, E02.01, E02.02, E02.03, E02.04, E02.05, E05.01, GT02.01, GT02.02 | 24.5 |
| Self-directed activities | Autonomous work by the student | E01.01, E01.02, E01.03, E05.01 | 118.5 |
| TOTAL HOURS | | | 225 |

ASSESSMENT

Attendance and active participation in class. With a weighting of 5% of the overall mark.

Theoretical and practical tests With a weighting of 70% of the overall mark.

Submission of work. With a weighting of 25% of the overall mark.


The following must be met in order to pass the module:

- Compulsory attendance at 100% of classes. Justified absences of up to 20% are permitted
- Pass each of the assessment blocks with a minimum mark of 5.
- Achieve an overall module mark of 5 or above.

All assessment activities can be resat.

Any student that does not complete the programmed assessments or any of the formative activities that are deemed compulsory will be considered "non assessable".

Remark procedure: consult the center's assessment policy.


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| ASSESSMENT ACTIVITIES | PERCENTAGE OF THE FINAL MARK | LEARNING OUTCOMES | HOURS OF STUDENT DEDICATION |
|--|------------------------------|---|-----------------------------|
| Attendance and active participation in class | 5% | GT02.01 | - |
| Theoretical practical tests | 70% | E01.01, E01.02, E01.03, E02.01, E02.02, E02.03, GT01.01 | - |
| Submission of work | 25% | E02.04, E02.05, E05.01, GT02.02 | - |
| TOTAL HOURS | | | |

BIBLIOGRAPHY AND WEB LINKS / BASIC SOURCES OF INFORMATION

| Books | | | | | |
|---|------|---|-----------------|-----------------------|---|
| Author/s | Year | Title | Edition | Place | Publisher |
| Putz R, Pabst R | 2006 | <i>Atlas de anatomia humana Sobotta</i> | 20th | Madrid | Panamericana |
| Netter Frank H | 2007 | <i>Sistema Respiratorio</i> | 4th | Basel | Masson |
| West, John B | 2012 | <i>Respiratory physiology, "the essentials"</i> | 9 th | Philadephia | Lippincott Williams & Wilkins |
| Sol Jaquotot, M. ^a Jesús del Sol Jaquotot (translation) | 2012 | Fisiología respiratoria: fundamentos | | Basel | Wolters Kluwer |
| Casan P, Gea J | 2007 | <i>Fisiología y Biología respiratorias</i> | 1st | Madrid | SEPAR |
| Jefferies A | 2001 | <i>Respiratory system</i> | | London | Mosby |
| Schwartzstein R | 2006 | <i>Respiratory Physiology : a clinical approach</i> | | Philadelphia | Lippincott Williams & Wilkins |
| Montané R | 2008 | <i>Valoración estaticodinámica del tórax</i> | 1st | Bellaterra, Barcelona | Universitat Autònoma de Barcelona, Servei de Publicacions |
| Chevallier J | 2016 | <i>El Drenaje autógeno o concepto de la "modulación del flujo y del nivel ventilatorio"</i> | 2nd | Bellaterra, Barcelona | Universitat Autònoma de Barcelona, Servei de Publicacions |
| Chevallier J | 2016 | <i>El Drenatge Autogen o concepte de la modulació del flux i del nivell ventilatori</i> | 2nd | Bellaterra, Barcelona | Universitat Autònoma de Barcelona, Servei de Publicacions |
| Chevallier J | 2016 | <i>Autogenic Drainage «The flow and breathing level modulation concept»</i> | 1st | Bellaterra, Barcelona | Universitat Autònoma de Barcelona, Servei de Publicacions |
| Potau JM, Tutusaus R | 2015 | <i>SISTEMA FASCIAL, Anatomía, valoración y tratamiento</i> | 1st | Madrid | Panamericana |
| Collins J., Stern E | 2015 | <i>Chest radiology. The essentials</i> | 3rd | Philadelphia | Wolters Kluwer Health |

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| Articles |
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| Author | Title | Journal | Volume | Year | Pages | Description/ Comment |
|--------|-------|---------|--------|------|-------|-------------------------|
| | | | | | | |

| Web references | | | |
|----------------|-------------|-----|--|
| Title | Description | URL | |
| | | | |

| Audiovisual material | | | |
|----------------------|-------------|--|--|
| Title | Description | | |
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| Others | | | |
|--------|-------------|--|--|
| Title | Description | | |
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This information will be available on the virtual campus to students enrolled on this module.

BIBLIOGRAPHY AND WEB LINKS / COMPLEMENTARY SOURCES OF INFORMATION

| Books | | | | | |
|----------|------|-------|---------|-------|-----------|
| Author/s | Year | Title | Edition | Place | Publisher |
| | | | | | |

| Articles | | | | | | |
|----------|-------|---------|--------|------|-------|----------------------------|
| Author | Title | Journal | Volume | Year | Pages | Description/ Commentary |
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| Web references | | | |
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| Title | Description | URL | |
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| Audiovisual material | | | |
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| Title | Description | | |
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| Others | | | |
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| Title | Description | | |
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This information will be available on the virtual campus to students enrolled on this module.

MODULE TIMETABLE

This information will be available on the virtual campus to students enrolled on this module.

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GENERAL INFORMATION

MODULE INFORMATION

| | | | |
|-------------------|--|---------------|-------------------|
| Module | 2. PATHOPHYSIOLOGY OF THE THORAX. EXPLORATION, ASSESSMENT, DIAGNOSTICS AND TREATMENT IN PHYSIOTHERAPY I | | |
| Code | 43049 | Academic year | 2021-2022 |
| ECTS credits | 9 | Module type | Compulsory |
| Year | 1 | Term | 1 |
| Timetable | Available to students enrolled on this module via the virtual campus | | |
| Teaching language | Catalan, Spanish, French, English | | |

FACULTY DATA

- Coordination

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PREREQUISITES

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- There are no official prerequisites

MODULE CONTEXTUALIZATION

In this module, students will acquire expert knowledge that will enable them to recognise the anatomical, physiological and biomechanical concepts that differentiate the adult thorax from that of a child. Students will also acquire expert knowledge in the pathophysiology of various diseases that affect the cardiorespiratory system, its exploration and specific evaluation, as well as medical treatment and applied physiotherapy. This knowledge will be applied to the areas of paediatrics, patients with obstructive and restrictive disorders, cardiac pathology in critical patients and resuscitation.


COMPETENCIES AND LEARNING OUTCOMES

Specific Competencies

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|-------------------|--|
| Competency | E01 Recognise and differentiate the anatomical, biomechanical, physiological and pathological changes produced by different disorders of the cardiorespiratory system. |
| Learning outcomes | E01.01 Identify the structures of the cardiorespiratory system in children. E01.02 Interpret the physiological and biomechanical disorders of different pathological processes of the cardiorespiratory system, under normal conditions and under stress. |
| Competency | E02 Evaluate the patient with the objective of determining the level of impairment of the cardiorespiratory system and its functional impact. |
| Learning outcomes | E02.01 Collect data from the static and dynamic exploration of the thorax, auscultation and complementary tests for different pathologies. E02.02 Develop data interpretation skills in order to conduct a physiotherapy evaluation of the cardiorespiratory system with different pathologies. E02.03 Calculate a physiotherapy diagnosis based on collected data for different clinical cases. |
| Competency | E03 Design a physiotherapy intervention plan for the treatment of disorders that affect the cardiorespiratory system. |
| Learning outcomes | E03.01 Propose the physiotherapy treatment, in line with the evaluation and based on clinical cases, of different pathologies. |
| Competency | E04 Apply, revise and adapt the physiotherapy treatment of cardiorespiratory system disorders through continued evaluation. |
| Learning outcomes | E04.01 Solve problems in the evolution of the treatment of different pathologies, drawing from clinical cases. |
| Competency | E05 Recognise appropriate validated variables in order to objectivise the results of the physiotherapy treatment. |
| Learning outcomes | E05.01 Identify relevant variables through the reading of articles and clinical cases. |

General/Transversal Competencies (learning outcomes are not required)

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| Competency | GT.01 Analyse, synthesise and make decisions using clinical cases. |
| Learning outcomes | GT01.01 Revise the physiological foundations upon which manual and |

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instrumental physiotherapy techniques are based.

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| Competency | GT.02 Develop group work characteristics. |
| Learning outcomes | GT02.01 Develop active participation and empathy during group work in the classroom. GT02.02 Understand the role of the physiotherapist within the multidisciplinary team. |

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| Competency | GT.03 Individually and collectively solve problems and adapt to new situations. |
| Learning outcomes | GT03.01 Manage the resolution of problems presented in the classroom. |

(learning outcomes are not required)

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| Competency | CB06 Possess and understand knowledge that provides a basis or opportunity for originality in the development and/or application of ideas, often in a research context. |
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|-------------------|---|
| Competency | CB07 Students should know how to apply acquired knowledge and their problem-solving ability in new or relatively unknown environments within broader (or multidisciplinary) contexts related to their area of study |
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| Competency | CB08 Students should be able to integrate knowledge and tackle the complexity of making judgements based on information that may be incomplete or limited and includes reflections on the ethical responsibilities associated with the application of their knowledge and judgements |
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| Competency | CB10 Students should possess the learning skills that enable them to continue studying in a manner that is largely self-guided or autonomous. |
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CONTENTS

1. Pulmonary development in children. Paediatric pathophysiology. Evaluation, diagnosis and physiotherapy project in children. Specific manual and instrumental paediatric physiotherapy techniques, in acute and chronic situations.
2. Chronic obstructive pulmonary disease (COPD): pathophysiology, classification, differential diagnosis, medical treatment, nutrition therapy. Inhalation therapy. Respiratory rehabilitation, definition, components, programmes, evaluation, results. Training types: peripheral muscles, ventilatory muscles. Effects, physiological reasons, modality, evaluation and research status. Hyperinflation Other adapted physiotherapy techniques: ventilatory retraining, draining, relaxation. Treatment of exacerbation. Treatment at home.
3. Restrictive pathology, pathophysiology, classification. Neuromuscular disorders. Spinal injury. Diagnosis of chronic respiratory failure. Non-invasive mechanical ventilation: methods, adaptation, interfaces. Assessment, diagnostics and treatment in physiotherapy Deglutition function, exploration and intervention. Dysphagia and treatment.
4. Anatomy and physiology of the heart. Basic electrocardiogram and main disorders. Pathophysiology: coronary heart disease, heart failure. Assessment, diagnosis and treatment of heart patients. Cardiac rehabilitation.
5. Diagnosis of acute respiratory failure. Invasive mechanic ventilation: candidates, methods, adaptation, intubation, safety, disconnection. Physiotherapy assessment, diagnostics and treatment of adult and paediatric patients in ICU.

TEACHING METHODOLOGY AND FORMATIVE ACTIVITIES

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Directed activities:
Lectures with ICT support
Problem-based learning
Classroom work
Workshops

Supervised activities:
Cooperative learning
Debates
Tutorials (request by sending an email to the coordinator or directly to the lecturer if indicated to do so)

Self-directed activities:
Resolution of cases virtually
Elaboration of written work
Personal study and reading of articles

| TYPE OF ACTIVITY | ACTIVITY | LEARNING OUTCOMES | HOURS OF STUDENT DEDICATION |
|--------------------------|--|---|-----------------------------|
| Directed activities | Theoretical practical presentations | E01.01, E01.02, E02.01, E02.02, E02.03, E04.01, E05.01, GT01.01, GT02.01, GT03.01 | 84 |
| Supervised activities | Practical, individual or collective activities | E01.01, E01.02, E02.01, E02.02, E02.03, E03.01, E04.01, E05.01, GT02.01, GT02.02, GT03.01 | 20 |
| Self-directed activities | Autonomous work by the student | E04.01, E05.01 | 121 |
| TOTAL HOURS | | | 225 |

ASSESSMENT

Attendance and active participation in class. With a weighting of 5% of the overall mark.
Theoretical and practical tests With a weighting of 70% of the overall mark.
Submission of work. With a weighting of 25% of the overall mark.


The following must be met in order to pass the module:

- Compulsory attendance at 100% of classes. Justified absences of up to 20% are permitted
- Pass each of the assessment blocks with a minimum mark of 5.
- Achieve an overall module mark of 5 or above.

All assessment activities can be resat.
Any student that does not complete the programmed assessments or any of the formative activities that are deemed compulsory will be considered "non assessable".

Remark procedure: consult the center's assessment policy.

| ASSESSMENT ACTIVITIES | PERCENTAGE OF THE FINAL MARK | LEARNING OUTCOMES | HOURS OF STUDENT DEDICATION |
|--|------------------------------|---------------------------------|-----------------------------|
| Attendance and active participation in class | 5% | GT02.01, GT03.01 | - |
| Theoretical practical tests | 70% | E01.01, E01.02, E02.03, E03.01, | - |

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|--------------------|-----|--|---|
| | | E04.01, E05.01, GT01.01, GT03.01 | |
| Submission of work | 25% | E02.01, E02.02, E02.03, E03.01, E04.01, E05.01, GT02.02 | - |
| TOTAL HOURS | | | |

BIBLIOGRAPHY AND WEB LINKS / BASIC SOURCES OF INFORMATION

| Books | | | | | |
|-------------------------|------|---|---------|--------------|---------------------------------|
| Author/s | Year | Title | Edition | Place | Publisher |
| Postiaux G | 2000 | <i>Fisioterapia respiratoria en el niño</i> | 1st | Madrid | Mc Graw-Hill / Interamericana |
| Postiaux G | 2003 | <i>La kinésithérapie respiratoire de l'enfant.</i> | 3rd | Brussels | Be Boeck Université |
| Pryor J, Ammani P | 2002 | <i>Physiotherapy for respiratory and cardiac problems. Adults and paediatrics</i> | 3rd | UK | Churchill Livingstone |
| Bach J | 2004 | <i>Management of patients with neuromuscular disease</i> | | Philadelphia | Hanley & Belfus |
| Güell R, Lucas P | 2005 | <i>Tratado de Rehabilitación Respiratoria</i> | | Basel | SEPAR i Ars XXI de Comunicación |
| Lucas P, Güell R | 2006 | <i>Tratado de Rehabilitación Respiratoria</i> | | Madrid | SEPAR |
| Hodgking Celli, Connors | 2009 | <i>Pulmonary Rehabilitation: Guidelines to succes</i> | 4th | Missouri | Mosby Elsevier |
| Bleeckx Didier | 2004 | <i>Disfagia: evaluación y reeducación de los transtornos de la deglución</i> | 1st | Madrid | McGraw-Hill/ Interamericana |
| Morris L, Sherif M | 2010 | <i>Tracheostomies: The complete guide</i> | 1st | New York | Springer |
| Cristancho Gómez W | 2012 | <i>Fisioterapia en la UCI: teoría, experiencia y evidencia</i> | 1st | Mexico | Prentice Hall |
| West, John B | 2017 | <i>West's pulmonary pathophysiology : the essentials</i> | 9th | Philadelphia | Wolters Kluwer |

| Articles | | | | | | |
|----------|-------|---------|--------|------|-------|-------------------------|
| Author | Title | Journal | Volume | Year | Pages | Description/ Commentary |
| | | | | | | |

| Web references | | | |
|----------------|-------------|-----|--|
| Title | Description | URL | |
| | | | |

| Audiovisual material | | | |
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| Title | Description | | |
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| Others | | | |
|--------|-------------|--|--|
| Title | Description | | |
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This information will be available on the virtual campus to students enrolled on this module.

BIBLIOGRAPHY AND WEB LINKS / COMPLEMENTARY SOURCES OF INFORMATION

| Books | | | | | |
|----------|------|-------|---------|-------|-----------|
| Author/s | Year | Title | Edition | Place | Publisher |
| | | | | | |

| Articles | | | | | | |
|----------|-------|---------|--------|------|-------|----------------------------|
| Author | Title | Journal | Volume | Year | Pages | Description/ Commentary |
| | | | | | | |

| Web references | | | |
|----------------|-------------|-----|--|
| Title | Description | URL | |
| | | | |


| Audiovisual material | | | |
|----------------------|-------------|--|--|
| Title | Description | | |
| | | | |

| Others | | | |
|--------|-------------|--|--|
| Title | Description | | |
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This information will be available on the virtual campus to students enrolled on this module.

MODULE TIMETABLE

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| This information will be available on the virtual campus to students enrolled on this module. |
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|  | MASTER'S DEGREE IN PHYSIOTHERAPY OF THE THORAX COURSE GUIDE | EUIF GIMBERNAT Physiotherapy |
|---|--|--|

GENERAL INFORMATION

MODULE INFORMATION

| | | | |
|-------------------|---|---------------|-------------------|
| Module | 3. PATHOPHYSIOLOGY OF THE THORAX. EXPLORATION, ASSESSMENT, DIAGNOSTICS AND TREATMENT IN PHYSIOTHERAPY II | | |
| Code | 43050 | Academic year | 2021-2022 |
| ECTS credits | 9 | Module type | Compulsory |
| Year | 1 | Term | 2 |
| Timetable | Available to students enrolled on this module via the virtual campus | | |
| Teaching language | Catalan, Spanish and French | | |

FACULTY DATA

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| Tutorial Schedule | To Be Arranged |


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| Tutorial Schedule | To Be Arranged |

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|-------------------|--------------------------|
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| Tutorial Schedule | To Be Arranged |

PREREQUISITES

- There are no official prerequisites

| | | |
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|  | MASTER'S DEGREE IN PHYSIOTHERAPY OF THE THORAX COURSE GUIDE | EUIF GIMBERNAT Physiotherapy |
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MODULE CONTEXTUALIZATION

In this module, students will acquire expert knowledge in the pathophysiology of various surgical processes that affect the cardiorespiratory system, their exploration and specific assessment, as well as medical treatment approaches and applied physiotherapy. It will also cover the implications of age-related physiological changes and sleep disorders. Students will also learn the advanced management of mechanical ventilation equipment and will be trained in cardiopulmonary resuscitation.

COMPETENCIES AND LEARNING OUTCOMES

Specific Competencies

| | |
|-------------------|--|
| Competency | E01 Recognise and differentiate the anatomical, biomechanical, physiological and pathological changes produced by different disorders of the cardiorespiratory system. |
| Learning outcomes | E01.01 Identify the pathophysiology of perioperative disorders of the cardiorespiratory system. E01.02 Identify the physiological changes of ageing. |

| | |
|-------------------|---|
| Competency | E02 Assess the patient with the objective of determining the level of impairment of the cardiorespiratory system and its functional impact. |
| Learning outcomes | E02.01 Identify the effects on the cardiorespiratory system as a result of surgery. E02.02 Recognize the diagnostic tests for sleep disorders. E02.03 Identify cardiac arrest. E02.04 Calculate a physiotherapy diagnosis based on clinical cases. |


| | |
|-------------------|--|
| Competency | E03 Design a physiotherapy intervention plan for the treatment of disorders that affect the cardiorespiratory system. |
| Learning outcomes | E03.01 Differentiate the modes and parameters of mechanical ventilation. E03.02 Propose the physiotherapy treatment, in line with the evaluation and based on clinical cases, of different pathologies. |

| | |
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| Competency | E04 Apply, revise and adapt the physiotherapy treatment of cardiorespiratory system disorders through continued evaluation. |
| Learning outcomes | E04.01 Solve problems in the evolution of perioperative treatment, drawing from clinical cases. E04.02 Recognise the function of mechanic ventilation in OSAHS and practice making adjustments. E04.03 Adapt the treatment plan to the characteristics of elderly patients. E04.04 Use mechanical ventilation to assist with the drainage of bronchial secretions. E04.05 Practise basic life support. |

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| Competency | E05 Recognise appropriate validated variables in order to objectivise the results of the physiotherapy treatment. |
| Learning outcomes | E05.01 Identify relevant variables through the reading of articles and clinical cases. |

General/Transversal Competencies (learning outcomes are not required)

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|-------------------|---|
| Competency | GT01 Analyse, synthesise and make decisions using clinical cases. |
| Learning outcomes | GT01.01 Revise the physiological foundations upon which manual and instrumental physiotherapy techniques are based. |

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| Competency | GT02 Develop group work characteristics. |
| Learning outcomes | GT02.01 Develop active participation and empathy during group work in the classroom. GT02.02 Understand the role of the physiotherapist within the multidisciplinary team. |

| | |
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| Competency | GT03 Individually and collectively solve problems and adapt to new situations. |
| Learning outcomes | GT03.01 Manage the resolution of problems presented in the classroom. |

(learning outcomes are not required)

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|-------------------|---|
| Competency | CB06 Possess and understand knowledge that provides a basis or opportunity for originality in the development and/or application of ideas, often in a research context. |
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| Competency | CB07 Students should know how to apply acquired knowledge and their problem-solving ability in new or relatively unknown environments within broader (or multidisciplinary) contexts related to their area of study |
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| Competency | CB08 Students should be able to integrate knowledge and tackle the complexity of making judgements based on information that may be incomplete or limited and includes reflections on the ethical responsibilities associated with the application of their knowledge and judgements |
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| Competency | CB10 Students should possess the learning skills that enable them to continue studying in a manner that is largely self-guided or autonomous. |
|-------------------|---|

CONTENTS

1. Pathophysiology of perioperative disorders. Abdominal surgery, procedures and complications. Physiotherapy assessment, diagnostics and treatment of abdominal surgery patients. Laryngeal surgery, surgical procedures, risks and functional implications. Physiotherapy assessment, diagnostics and treatment of patients undergoing laryngeal surgery, care of tracheotomies. Heart surgery, procedures and complications. Physiotherapy assessment, diagnostics and treatment of heart surgery patients. Thoracic surgery. Endoscopies, surgical access to the thorax, procedures and complications. Lung volume reduction surgery and lung transplants. Pleural pathology, drainage. Thoracic trauma, complications. Physiotherapy assessment, diagnostics and treatment of thoracic surgery patients.
2. Pathophysiology of cardiorespiratory ageing. Age-related biological changes and their consequences. Physiotherapeutic approaches in geriatrics.
3. Sleep disorders. Pathophysiology and therapeutic approach.
4. Cardiopulmonary resuscitation. Life support.
5. Advanced use of mechanical ventilation, as ventilation support and for drainage.

TEACHING METHODOLOGY AND FORMATIVE ACTIVITIES

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|---|
| <p><i>Directed activities:</i> Lectures with ICT support Problem-based learning Classroom work Workshops</p> <p><i>Supervised activities:</i> Cooperative learning Debates Tutorials (request by sending an email to the coordinator or directly to the lecturer if indicated to do so)</p> <p><i>Self-directed activities:</i></p> |
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Resolution of cases virtually
Elaboration of written work
Personal study and reading of articles

| TYPE OF ACTIVITY | ACTIVITY | LEARNING OUTCOMES | HOURS OF STUDENT DEDICATION |
|--------------------------|---|--|-----------------------------|
| Directed activities | Theoretical practical presentations | E01.01, E01.02, E02.01, E02.02, E02.03, E02.04, E03.01, E03.02, E04.01, E04.02, E04.04, E04.05, E05.01, GT01.01, GT02.01, GT02.02, GT03.01 | 82 |
| Supervised activities | Practical, individual and collective activities | E01.01, E01.02, E02.01, E02.02, E02.03, E02.04, E03.01, E03.02, E04.01, E04.02, E04.03, E04.04, E04.05, E05.01, GT02.01, GT02.02, GT03.01, | 24 |
| Self-directed activities | Autonomous work by the student | E04.01, E05.01 | 119 |
| TOTAL HOURS | | | 225 |

ASSESSMENT


Attendance and active participation in class. With a weighting of 5% of the overall mark.
Theoretical and practical tests With a weighting of 70% of the overall mark.
Submission of work. With a weighting of 25% of the overall mark.

The following must be met in order to pass the module:

- Compulsory attendance at 100% of classes. Justified absences of up to 20% are permitted
- Pass each of the assessment blocks with a minimum mark of 5.
- Achieve an overall module mark of 5 or above.

All assessment activities can be resat.
Any student that does not complete the programmed assessments or any of the formative activities that are deemed compulsory will be considered "non assessable".

Remark procedure: consult the center's assessment policy.

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| ASSESSMENT ACTIVITIES | PERCENTAGE OF THE FINAL MARK | LEARNING OUTCOMES | HOURS OF STUDENT DEDICATION |
|--|------------------------------|--|-----------------------------|
| Attendance and active participation in class | 5% | GT02.01, GT03.01 | - |
| Theoretical practical tests | 70% | E01.01, E01.02, E02.01, E02.02, E02.03, E02.04, E03.01, E03.02, E04.01, E04.02, E04.03, E04.04, E04.05, E05.01, GT01.01, GT03.01 | - |
| Submission of work | 25% | E02.04, E03.02, E04.01, E04.03, E05.01, GT02.02 | - |
| TOTAL HOURS | | | |


BIBLIOGRAPHY AND WEB LINKS / BASIC SOURCES OF INFORMATION

| Books | | | | | |
|------------------------------------|------|---|---------|---------------------|-----------------------|
| Author/s | Year | Title | Edition | Place | Publisher |
| Reychler G, Roeseler J, Delguste P | 2014 | <i>Kinésithérapie Respiratoire</i> | 3rd | Issy-les-Moulineaux | Elsevier |
| Pryor J, Ammani P | 2002 | <i>Physiotherapy for respiratory and cardiac problems. Adults and Paediatrics</i> | 3rd | UK | Churchill Livingstone |
| Frownfelter D, Dean E | 2012 | <i>Cardiovascular and Pulmonary Physical Therapy</i> | 5th | USA | Mosby Elsevier |
| Simonds A | 2007 | <i>Non Invasive Ventilatory Support</i> | | Oxford | Chapman & Hall |
| Cristancho Gómez W | 2012 | <i>Fisioterapia en la UCI: teoría, experiencia y evidencia</i> | 1st | Mexico | Prentice Hall |
| European Resuscitation Council | 2010 | <i>European Resuscitation Council Guidelines for Resuscitation</i> | | | |
| West, John B | 2013 | <i>West's pulmonary pathophysiology : the essentials</i> | 9th | Philadelphia | Wolters Kluwer |
| Cristancho Gómez W | 2015 | <i>Fundamentos de fisioterapia respiratoria y ventilación mecánica</i> | 3rd | Bogotá | Prentice Hall |

| Articles | | | | | | |
|----------|-------|---------|--------|------|-------|-------------------------|
| Author | Title | Journal | Volume | Year | Pages | Description/ Commentary |
| | | | | | | |

| Web references | | |
|----------------|-------------|-----|
| Title | Description | URL |
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| Audiovisual material |
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|  | MASTER'S DEGREE IN PHYSIOTHERAPY OF THE THORAX COURSE GUIDE | EUIF GIMBERNAT Physiotherapy |
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| Title | Description | | |
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| Others | | | |
| Title | Description | | |
| | | | |

This information will be available on the virtual campus to students enrolled on this module.

BIBLIOGRAPHY AND WEB LINKS / COMPLEMENTARY SOURCES OF INFORMATION

| | | | | | |
|----------|------|-------|---------|-------|-----------|
| Books | | | | | |
| Author/s | Year | Title | Edition | Place | Publisher |
| | | | | | |

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|----------|-------|---------|--------|------|-------|----------------------------|
| Articles | | | | | | |
| Author | Title | Journal | Volume | Year | Pages | Description/ Commentary |
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|----------------|-------------|-----|--|
| Web references | | | |
| Title | Description | URL | |
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| Audiovisual material | | | |
| Title | Description | | |
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| Others | | | |
| Title | Description | | |
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This information will be available on the virtual campus to students enrolled on this module.

MODULE TIMETABLE

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| This information will be available on the virtual campus to students enrolled on this module. |
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GENERAL INFORMATION

MODULE INFORMATION

| | | | |
|-------------------|--|---------------|-------------------|
| Module | 4. RESEARCH METHODOLOGY. MANAGEMENT AND PROFESSION | | |
| Code | 43051 | Academic year | 2021-2022 |
| ECTS credits | 9 | Module type | Compulsory |
| Year | 1 | Term | Annual |
| Timetable | Available to students enrolled on this module via the virtual campus | | |
| Teaching language | Catalan, Spanish and French | | |

FACULTY DATA

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|  | MASTER'S DEGREE IN PHYSIOTHERAPY OF THE THORAX COURSE GUIDE | EUIF GIMBERNAT Physiotherapy |
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PREREQUISITES

- There are no official prerequisites

MODULE CONTEXTUALIZATION

The objective of this module is to provide students with knowledge of the basic aspects of conducting research work, as well as the critical analysis of the most current research methods and designs in cardiorespiratory physiotherapy and the processes of gathering and analysing data. Students will also learn how to discuss, argue and integrate the research results into their knowledge of the discipline.

The module will also provide students with concepts of healthcare quality, equip them with tools for group work through applied psychopedagogy and introduce them to professional competencies, ethics and deontology.


COMPETENCIES AND LEARNING OUTCOMES

Specific Competencies

| | |
|-------------------|---|
| Competency | E05 Recognise appropriate validated variables in order to objectivise the results of the physiotherapy treatment. |
| Learning outcomes | E05.01 Identify qualitative and quantitative variables through the reading of articles. |

| | |
|-------------------|---|
| Competency | E06 Apply scientific method in the approach to and resolution of clinical problems. |
| Learning outcomes | E06.01 Recognise and analyse the structure of quantitative scientific studies through the reading of articles. E06.02 Interpret statistical results. |

| | |
|-------------------|---|
| Competency | E07 Use the necessary methodological basis to design experimental protocols in the field of cardiorespiratory physiotherapy. |
| Learning outcomes | E07.01 Identify the theoretical and practical framework through reading of articles. E07.02 Identify key words for bibliographical searches. E07.03 Identify the content of the title of a scientific study. E07.04 Formulate hypotheses and objectives in a scientific study. |

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General/Transversal Competencies (learning outcomes are not required)

| | |
|-------------------|---|
| Competency | GT02 Develop group work characteristics. |
| Learning outcomes | GT02.01 Develop active participation and empathy during group work in the classroom. GT02.02 Understand the role of the physiotherapist within the multidisciplinary team. |

| | |
|-------------------|--|
| Competency | GT03 Individually and collectively solve problems and adapt to new situations. |
| Learning outcomes | GT03.01 Manage the resolution of problems presented in the classroom. |

| | |
|-------------------|--|
| Competency | GT04 Identify and use quality assurance principles in professional practice. |
| Learning outcomes | GT04.01 Recognise the quality assessment tools in different situations. GT04.02 Apply the quality assessment tools in different situations. |

| | |
|-------------------|---|
| Competency | GT05 Adopt the legal and ethical aspects in professional practice. |
| Learning outcomes | GT05.01 Inform and involve the patient in decision making about their treatment. GT05.02 Acknowledge the physiotherapy code of practice. |

Basic Competencies (learning outcomes are not required)

| | |
|-------------------|---|
| Competency | CB08 Students should be able to integrate knowledge and tackle the complexity of making judgements based on information that may be incomplete or limited and includes reflections on the social and ethical responsibilities associated with the application of their knowledge and judgements |
|-------------------|---|


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| Competency | CB09 Students should know how to communicate their conclusions, knowledge and supporting rationale in front of specialised and non-specialised audiences in a clear and unambiguous manner |
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| Competency | CB10 Students should possess the learning skills that enable them to continue studying in a manner that is largely self-guided or autonomous. |
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CONTENTS

| |
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| <ol style="list-style-type: none"> 1. Introduce the student to the basic aspects of conducting research work. 2. Applied research methodology. Structure of scientific studies. Types of study designs. Bibliographical searches. Theoretical framework and contents sheets. Objectives and variables of a scientific study. Statistical analysis and research results. Critical reading of scientific information. Practical framework: design of a scientific study. Written and oral presentation of a scientific study. 3. Bioethics in physiotherapy 4. Evaluation of the quality of health care applied to physiotherapy. 5. Status of the legislation and professional competencies. Ethics and deontology. 6. Psychopedagogy applied to physiotherapy. Group dynamics. 7. |
|--|

TEACHING METHODOLOGY AND FORMATIVE ACTIVITIES


| | | |
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|  | MASTER'S DEGREE IN PHYSIOTHERAPY OF THE THORAX COURSE GUIDE | EUIF GIMBERNAT Physiotherapy |
|---|--|--|

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| <p><i>Directed activities:</i> Lectures with ICT support Problem-based learning Classroom work</p> <p><i>Supervised activities:</i> Cooperative learning Debates</p> <p>Tutorials (request by sending an email to the coordinator, or directly to the lecturer if indicated to do so)</p> <p><i>Self-directed activities:</i> Elaboration of written work Personal study and reading of articles</p> |
|--|

| TYPE OF ACTIVITY | ACTIVITY | LEARNING OUTCOMES | HOURS OF STUDENT DEDICATION |
|--------------------------|---|---|-----------------------------|
| Directed activities | Theoretical practical presentations | E05.01, E06.01, E06.02, E07.01, E07.02, E07.03, E07.04, GT02.01, GT02.02, GT03.01, GT04.01, GT05.02 | 60 |
| Supervised activities | Practical, individual and collective activities | E05.01, E06.01, E06.02, E07.01, E07.02, E07.03, E07.04, GT02.01, GT02.02, GT03.01, GT04.01, GT04.02, GT05.01, GT05.02 | 45 |
| Self-directed activities | Autonomous work by the student | E05.01, E06.01, E06.02, E07.01, E07.02, E07.03, E07.04, GT0.02 | 120 |
| TOTAL HOURS | | | 225 |

ASSESSMENT

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|---|
| <p>Attendance and active participation in class. With a weighting of 5% of the overall mark.</p> <p>Theoretical and practical tests With a weighting of 70% of the overall mark.</p> <p>Submission of work. With a weighting of 25% of the overall mark.</p> <p>The following must be met in order to pass the module:</p> <ul style="list-style-type: none"> • Compulsory attendance at 100% of classes. Justified absences of up to 20% are permitted • Pass each of the assessment blocks with a minimum mark of 5. • Achieve an overall module mark of 5 or above. <p>All assessment activities can be resat.</p> <p>Any student that does not complete the programmed assessments or any of the formative activities that are deemed compulsory will be considered "non assessable".</p> <p>Remark procedure: consult the center's assessment policy.</p> |
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|  | MASTER'S DEGREE IN PHYSIOTHERAPY OF THE THORAX COURSE GUIDE | EUIF GIMBERNAT Physiotherapy |
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| ASSESSMENT ACTIVITIES | PERCENTAGE OF THE FINAL MARK | LEARNING OUTCOMES | HOURS OF STUDENT DEDICATION |
|--|------------------------------|--|-----------------------------|
| Attendance and active participation in class | 5% | GT02.01, GT03.01 | |
| Theoretical practical tests | 70% | E05.01, E06.01, E06.02, E07.01, E07.02, E07.03, E07.04, GT03.01, GT04.01, GT04.02, GT05.02 | |
| Submission of work | 25% | E05.01, E06.01, E06.02, E07.01, E07.02, E07.03, E07.04, GT0.02, GT04.01, GT05.01, GT05.02 | |
| TOTAL HOURS | | | |

BIBLIOGRAPHY AND WEB LINKS / BASIC SOURCES OF INFORMATION

| Books | | | | | |
|--|------|---|---------|-----------------------|---|
| Author/s | Year | Title | Edition | Place | Publisher |
| Esquirol Caussa J, Herrero Vila E, Sánchez Aldeguer J. | 2012 | <i>Metodologia i estadística per a professionals de la salut: I. Conceptes bàsics de metodologia científica</i> | 1st | Bellaterra, Barcelona | Universitat Autònoma de Barcelona, Servei de Publicacions |
| Esquirol Caussa J, Herrero Vila E, Sánchez Aldeguer J. | 2012 | <i>Metodologia i estadística per a professionals de la salut: II. Bases de l'estadística i del disseny d'estudis científics</i> | 1st | Bellaterra, Barcelona | Universitat Autònoma de Barcelona, Servei de Publicacions |
| Esquirol Caussa J, Herrero Vila E, Sánchez Aldeguer J. | 2012 | <i>Metodologia i estadística per a professionals de la salut: III. L'anàlisi estadístic</i> | 1st | Bellaterra, Barcelona | Universitat Autònoma de Barcelona, Servei de Publicacions |
| Gordis L | 2009 | <i>Epidemiology</i> | 5th | Philadelphia | Elsevier |
| Martínez-González MA, Sanchez-Villegas A, Faulin Fajardo J | 2008 | <i>Bioestadística amigable</i> | 2nd | Madrid | Edition Díaz de Santos |

| Articles | | | | | | |
|----------|-------|---------|--------|------|-------|------------------------|
| Author | Title | Journal | Volume | Year | Pages | Description/Commentary |
| | | | | | | |

| Web references | | | |
|----------------|-------------|-----|--|
| Title | Description | URL | |
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|  | MASTER'S DEGREE IN PHYSIOTHERAPY OF THE THORAX COURSE GUIDE | EUIF GIMBERNAT Physiotherapy |
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| Audiovisual material | | | |
| Title | Description | | |
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| Others | | | |
| Title | Description | | |
| | | | |

This information will be available on the virtual campus to students enrolled on this module.

BIBLIOGRAPHY AND WEB LINKS / COMPLEMENTARY SOURCES OF INFORMATION

| | | | | | |
|----------|------|-------|---------|-------|-----------|
| Books | | | | | |
| Author/s | Year | Title | Edition | Place | Publisher |
| | | | | | |

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|----------|-------|---------|--------|------|-------|----------------------------|
| Articles | | | | | | |
| Author | Title | Journal | Volume | Year | Pages | Description/ Commentary |
| | | | | | | |

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| Web references | | | |
| Title | Description | URL | |
| BRN Reviews | Barcelona Respiratory Network Reviews | | |
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|----------------------|-------------|--|--|
| Audiovisual material | | | |
| Title | Description | | |
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| Others | | | |
| Title | Description | | |
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This information will be available on the virtual campus to students enrolled on this module.

MODULE TIMETABLE

This information will be available on the virtual campus to students enrolled on this module.

| | | |
|---|--|--|
|  | MASTER'S DEGREE IN PHYSIOTHERAPY OF THE THORAX COURSE GUIDE | EUIF GIMBERNAT Physiotherapy |
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GENERAL INFORMATION

MODULE INFORMATION

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|-------------------|--|---------------|-------------------|
| Module | 5. EXTERNAL PLACEMENT | | |
| Code | 43052 | Academic year | 2021-2022 |
| ECTS credits | 12 | Module type | Compulsory |
| Year | 1 | Term | Annual |
| Timetable | Available to students enrolled on this module via the virtual campus | | |
| Teaching language | Catalan, Spanish, French or English | | |

FACULTY DATA

- Coordination

| | |
|-------------------|----------------------------|
| Professor's Name | JÚLIA ESTELA ESTEVE |
| Email | Julia.estela@eug.es |
| Tutorial Schedule | To Be Arranged |

- Faculty data

| | |
|-------------------|--|
| Professor's Name | External tutors at the placement center |
| Email | |
| Tutorial Schedule | To Be Arranged |


PREREQUISITES

- There are no official prerequisites

MODULE CONTEXTUALIZATION

Through this module, students consolidate theoretical knowledge and skills acquired in the classroom and put them into practice through the clinical practice of physiotherapy. Students will also acquire transversal skills through contact with patients and the rest of the staff on the healthcare team.

COMPETENCIES AND LEARNING OUTCOMES

| | | |
|---|--|--|
|  | MASTER'S DEGREE IN PHYSIOTHERAPY OF THE THORAX COURSE GUIDE | EUIF GIMBERNAT Physiotherapy |
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Specific Competencies

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| Competency | E02 Assess the patient with the objective of determining the level of impairment of the cardiorespiratory system and its functional impact. |
| Learning outcomes | E02.01 Identify the signs and symptoms of the cardiorespiratory patients and produce a medical history. E02.02 Interpret available complementary tests. E02.03 Use clinical reasoning to formulate physiotherapy diagnosis hypotheses based on the patient assessment and the interpretation of the results of different diagnostic tests. |
| Competency | E03 Design a physiotherapy intervention plan for the treatment of disorders that affect the cardiorespiratory system. |
| Learning outcomes | E03.01 Select the most appropriate cardiorespiratory physiotherapy procedures in order to resolve specific clinical cases involving acute and chronic patients. E03.02 Build a patient report for the treatment carried out and record it in the patient's medical record. |
| Competency | E04 Apply, revise and adapt the physiotherapy treatment of cardiorespiratory system disorders by means of continued evaluation. |
| Learning outcomes | E04.01 Recognise the clinical changes over the course of a physiotherapy treatment. E04.02 Modify the physiotherapy treatment in line with the clinical changes observed during application. |
| Competency | E05 Recognise appropriate validated variables in order to objectivise the results of the physiotherapy treatment. |
| Learning outcomes | E05.01 Assess an adult patient using the dyspnoea scale, quality of life questionnaires, physical condition and ventilatory muscle function tests. E05.02 Interpret the results of spirometry, blood gas tests and diagnostic imaging, drawing from clinical cases. |

General/Transversal Competencies (learning outcomes are not required)

| | |
|-------------------|--|
| Competency | GT01 Analyse, synthesise and make decisions using clinical cases. |
| Learning outcomes | GT01.01 Revise the physiological foundations upon which manual and instrumental physiotherapy techniques are based. |
| Competency | GT02 Develop group work characteristics. |
| Learning outcomes | GT02.01 Develop active participation and empathy during group work at the placement center. GT02.02 Understand the role of the physiotherapist within the multidisciplinary team. |
| Competency | GT03 Individually and collectively solve problems and adapt to new situations. |
| Learning outcomes | GT03.01 Manage the resolution of problems presented at the placement center. |
| Competency | GT04 Identify and use quality assurance principles in professional practice. |
| Learning outcomes | GT04.01 Recognise the quality assessment tools in different situations. GT04.02 Apply the quality assessment tools in different situations. |
| Competency | GT05 Adopt the legal and ethical aspects in professional practice. |
| Learning outcomes | GT05.01 Inform and involve the patient in decision making about their treatment. GT05.02 Acknowledge the physiotherapy code of practice. |

Basic Competencies

| | | |
|---|--|--|
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(learning outcomes are not required)

| | |
|-------------------|---|
| Competency | CB06 Possess and understand knowledge that provides a basis or opportunity for originality in the development and/or application of ideas, often in a research context. |
| Competency | CB07 Students should know how to apply acquired knowledge and their problem-solving ability in new or relatively unknown environments within broader (or multidisciplinary) contexts related to their area of study |
| Competency | CB08 Students should be able to integrate knowledge and tackle the complexity of making judgements based on information that may be incomplete or limited and includes reflections on the social and ethical responsibilities associated with the application of their knowledge and judgements |
| Competency | CB09 Students should know how to communicate their conclusions, knowledge and supporting rationale in front of specialised and non-specialised audiences in a clear and unambiguous manner |
| Competency | CB10 Students should possess the learning skills that enable them to continue studying in a manner that is largely self-guided or autonomous. |


CONTENTS

1. Practical care activities at different hospital centers and in different cardiorespiratory specialist areas, with the aim of bringing together abilities, skills, attitudes and acquired knowledge.
2. Dissection of different structures of the respiratory system.
3. Stress test in the laboratory.

TEACHING METHODOLOGY AND FORMATIVE ACTIVITIES

Supervised activities:
Clinical placement
Laboratory work
Tutorials (ask the coordinator directly or send an email)

Self-directed activities:
Personal study


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| TYPE OF ACTIVITY | ACTIVITY | LEARNING OUTCOMES | HOURS OF STUDENT DEDICATION |
|--------------------------|---------------------------------|--|-----------------------------|
| Supervised activities | Placement in healthcare centers | E02.01, E02.02, E02.03, E03.01, E03.02, E04.01, E04.02, E05.01, E05.02, GT01.01, GT02.01, GT02.02, GT03.01, GT04.01, GT0.02, GT05.01, GT05.02 | 225 |
| Self-directed activities | Autonomous work by the student | E02.01, E02.02, E02.03, E03.01, E03.02, E04.01, E04.02, E05.01, E05.02, GT01.01, GT02.01, GT02.02, GT03.01, GT04.01, GT04.02, GT05.01, GT05.02 | 75 |
| TOTAL HOURS | | | 300 |

ASSESSMENT

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| <p>Tutor's report with a weighting of 70% of the overall mark. Placement report with a weighting of 30% of the overall mark. The following must be met in order to pass the module:</p> <ul style="list-style-type: none"> Compulsory attendance at 100% of the placement. Pass each of the assessment blocks with a minimum mark of 5. Achieve an overall module mark of 5 or above. <p>Any student that does not complete the programmed assessments or any of the formative activities that are deemed compulsory will be considered "non assessable".</p> <p>Remark procedure: consult the assessment policy.</p> |
|--|


| ASSESSMENT ACTIVITIES | PERCENTAGE OF THE FINAL MARK | LEARNING OUTCOMES | HOURS OF STUDENT DEDICATION |
|-----------------------|------------------------------|--|-----------------------------|
| Tutor's report | 70% | E02.01, E02.02, E02.03, E03.01, E03.02, E04.01, E04.02, E05.01, E05.02, GT02.01, GT02.02, GT03.01, GT04.01, GT05.01 | - |
| Placement report | 30% | E02.01, E02.02, E02.03, E03.01, E03.02, E04.01, E04.02, E05.01, E05.02, GT01.01, GT02.01, GT02.02, GT03.01, GT04.01, GT04.02, GT05.01, GT05.02 | - |

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|  <p>escoles universitàries gimbernat i Tomàs Cerdà</p> <p>ADSCRITA A LA UPMB</p> | <p>MASTER'S DEGREE IN PHYSIOTHERAPY OF THE THORAX COURSE GUIDE</p> | <p>EUIF GIMBERNAT Physiotherapy</p> |
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| | TOTAL HOURS | |
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MODULE TIMETABLE

This information will be available on the virtual campus to students enrolled on this module.

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GENERAL INFORMATION

MODULE INFORMATION

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|-------------------|--|---------------|-------------------|
| Module | 6. MASTER'S DISSERTATION | | |
| Code | 43053 | Academic year | 2021-2022 |
| ECTS credits | 12 | Module type | Compulsory |
| Year | 1 | Term | Annual |
| Timetable | Available to students enrolled on this module via the virtual campus | | |
| Teaching language | Catalan, Spanish, French and English | | |

FACULTY DATA

- Coordination

| | |
|-------------------|-------------------------------|
| Professor's Name | VANESA RODRIGUEZ SALÉS |
| Email | vanesa.rodriguez@eug.es |
| Tutorial Schedule | To Be Arranged |

- Other faculty data

| | |
|-------------------|----------------------------|
| Professor's Name | Dissertation tutors |
| Email | |
| Tutorial Schedule | To Be Arranged |

PREREQUISITES

- There are no official prerequisites


MODULE CONTEXTUALIZATION

In this module, students will learn to develop the whole process of research work, including the study approach, related theoretical framework, design of the protocol, collection and analysis of data, development of an argument, writing of conclusions, bibliographic references and annexes. They will also learn how to conduct the oral presentation and defence.

COMPETENCIES AND LEARNING OUTCOMES

Specific Competencies

| | |
|-------------------|---|
| Competency | E05 Recognise appropriate validated variables in order to objectivise the results of the physiotherapy treatment. |
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| Learning outcomes | E05.01 Select appropriate variables for the scientific study. |
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|-------------------|---|
| Competency | E06 Apply scientific method in the approach to and resolution of clinical problems. |
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| Learning outcomes | E06.01 Apply the structure of scientific studies to the work. |
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| Competency | E07 Use the necessary methodological basis to design experimental protocols in the field of cardiorespiratory physiotherapy. |
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| Learning outcomes | E07.01 Analyse pertinent literature, using appropriate information retrieval methods. E07.02 Formulate hypotheses and objectives based on the practice of physiotherapy. E07.03 Design the scientific study. E07.04 Conduct a pilot study in the field of cardiorespiratory physiotherapy. E07.05 Organise and analyse the collected variables and data. E07.06 Formulate the argument and conclusions of the study. |
|-------------------|---|

General/Transversal Competencies (learning outcomes are not required)

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|-------------------|--|
| Competency | GT02 Develop group work characteristics. |
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| Learning outcomes | GT02.01 Develop active participation and empathy during group work. GT02.02 Understand the role of the physiotherapist within the multidisciplinary team. |
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| Competency | GT03 Individually and collectively solve problems and adapt to new situations. |
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| Learning outcomes | GT03.01 Manage the resolution of problems. |
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| Competency | GT04 Identify and use quality assurance principles in professional practice. |
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| Learning outcomes | GT04.01 Recognise the quality assessment tools in different situations. GT04.02 Apply the quality assessment tools in different situations. |
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| Competency | GT05 Adopt the legal and ethical aspects in professional practice. |
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| | |
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| Learning outcomes | GT05.01 Meet the legal and ethical requirements in the development of a research protocol. GT05.02 Acknowledge the physiotherapy code of practice. |
|-------------------|---|


Basic Competencies (learning outcomes are not required)

| | |
|-------------------|---|
| Competency | CB06 Possess and understand knowledge that provides a basis or opportunity for originality in the development and/or application of ideas, often in a research context. |
|-------------------|---|

| | |
|-------------------|--|
| Competency | CB09 Students should know how to communicate their conclusions, knowledge and supporting rationale in front of specialised and non-specialised audiences in a clear and unambiguous manner |
|-------------------|--|

| | |
|-------------------|--|
| Competency | CB10 Students should possess the learning skills that enable them to continue studying in a manner that is largely self-guided or autonomous |
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|  | MASTER'S DEGREE IN PHYSIOTHERAPY OF THE THORAX COURSE GUIDE | EUIF GIMBERNAT Physiotherapy |
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1. A complete piece of research work specific to cardiorespiratory physiotherapy, based on clinical needs and using interdisciplinary methodology.
2. Brief presentation of the work carried out in front of an evaluating committee.

TEACHING METHODOLOGY AND FORMATIVE ACTIVITIES

Supervised activities:
Lectures with ICT support
Classroom work
Tutorials (ask the coordinator directly or send an email)


Self-directed activities:
Elaboration of written work
Personal study
Reading of articles
Oral presentation of written work

| TYPE OF ACTIVITY | ACTIVITY | LEARNING OUTCOMES | HOURS OF STUDENT DEDICATION |
|--------------------------|-------------------------------------|--|-----------------------------|
| Directed activities | Theoretical-practical presentations | | 3 |
| Supervised activities | Tutorials | GT02.01, GT03.01 | 65 |
| Self-directed activities | Autonomous work by the student | E05.01, E06.01, E07.01, E07.02, E07.03, E07.04, E07.05, E07.06, GT02.02, GT03.01, GT04.01, GT04.02, GT05.01, GT05.02 | 232 |
| TOTAL HOURS | | | 300 |

ASSESSMENT

Master's Dissertation. With a weighting of 80% of the overall mark.
Oral Defence of the Dissertation. With a weighting of 20% of the overall mark.
The following must be met in order to pass the module:

- Pass each of the assessment blocks with a minimum mark of 5.

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- Achieve an overall module mark of 5 or above.

Any student that does not complete the programmed assessments or any of the formative activities that are deemed compulsory will be considered "non assessable".

Remark procedure: consult the dissertation assessment policy.


| ASSESSMENT ACTIVITIES | PERCENTAGE OF THE FINAL MARK | LEARNING OUTCOMES | HOURS OF STUDENT DEDICATION |
|----------------------------------|------------------------------|---|-----------------------------|
| Master's Dissertation | 80% | E05.01, E06.01, E07.01, E07.02, E07.03, E07.04, E07.05, E07.06, GT02.02, GT04.01, GT04.02, GT05.01, GT05.02 | - |
| Oral Defence of the Dissertation | 20% | GT02.01, GT03.01 | - |
| TOTAL HOURS | | | |

BIBLIOGRAPHY AND WEB LINKS / BASIC SOURCES OF INFORMATION

| Books | | | | | |
|--|------|---|---------|-----------------------|---|
| Author/s | Year | Title | Edition | Place | Publisher |
| Esquirol Caussa J, Herrero Vila E, Sánchez Aldeguer J. | 2012 | <i>Metodologia i estadística per a professionals de la salut: I. Conceptes bàsics de metodologia científica</i> | 1st | Bellaterra, Barcelona | Universitat Autònoma de Barcelona, Servei de Publicacions |
| Esquirol Caussa J, Herrero Vila E, Sánchez Aldeguer J. | 2012 | <i>Metodologia i estadística per a professionals de la salut: II. Bases de l'estadística i del disseny d'estudis científics</i> | 1st | Bellaterra, Barcelona | Universitat Autònoma de Barcelona, Servei de Publicacions |
| Esquirol Caussa J, Herrero Vila E, Sánchez Aldeguer J. | 2012 | <i>Metodologia i estadística per a professionals de la salut: III. L'anàlisi estadístic</i> | 1st | Bellaterra, Barcelona | Universitat Autònoma de Barcelona, Servei de Publicacions |
| Gordis L | 2009 | <i>Epidemiology</i> | 5th | Philadelphia | Elsevier Saunders |
| Martínez-González MA, Sanchez-Villegas A, Faulin Fajardo J | 2008 | <i>Bioestadística amigable</i> | 2nd | Madrid | Edition Díaz de Santos |

| Articles | | | | | | |
|----------|-------|---------|--------|------|-------|------------------------|
| Author | Title | Journal | Volume | Year | Pages | Description/Commentary |
| | | | | | | |

| Web references | | |
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| Title | Description | URL |
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| <u>BRN Reviews</u> | Barcelona Respiratory Network Reviews | | |
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| Audiovisual material | | | |
| Title | Description | | |
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| Others | | | |
| Title | Description | | |
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This information will be available on the virtual campus to students enrolled on this module.

BIBLIOGRAPHY AND WEB LINKS / COMPLEMENTARY SOURCES OF INFORMATION

This information will be available on the virtual campus to students enrolled on this module.

| | | | | | |
|----------|------|-------|---------|-------|-----------|
| Books | | | | | |
| Author/s | Year | Title | Edition | Place | Publisher |
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|----------|-------|---------|--------|------|-------|----------------------------|
| Articles | | | | | | |
| Author | Title | Journal | Volume | Year | Pages | Description/ Commentary |
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| Web references | | | |
| Title | Description | URL | |
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| Audiovisual material | | | |
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| Others | | | |
| Title | Description | | |
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This information will be available on the virtual campus to students enrolled on this module.

MODULE TIMETABLE

This information will be available on the virtual campus to students enrolled on this module.