

 <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

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

MODULE INFORMATION

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		

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	MASTER'S DEGREE IN PHYSIOTHERAPY OF THE THORAX COURSE GUIDE	EUIF GIMBERNAT Physiotherapy
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Tutorial Schedule	To Be Arranged

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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 |
|---|

MODULE CONTEXTUALIZATION

<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>

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 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.

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

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.

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)

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 in the classroom. GT02.02 Understand the role of the physiotherapist within the multidisciplinary team.

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.
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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

<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

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

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.

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

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

Articles

	MASTER'S DEGREE IN PHYSIOTHERAPY OF THE THORAX COURSE GUIDE	EUIF GIMBERNAT Physiotherapy
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Author	Title	Journal	Volume	Year	Pages	Description/ Comment

Web references			
Title	Description	URL	

Audiovisual material			
Title	Description		

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

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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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

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		

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- Coordination

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

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

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)

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

	MASTER'S DEGREE IN PHYSIOTHERAPY OF THE THORAX COURSE GUIDE	EUIF GIMBERNAT Physiotherapy
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instrumental physiotherapy techniques are based.

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.

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)

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

	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 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> Resolution of cases virtually Elaboration of written work Personal study and reading of articles</p>
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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

<p>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.</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. 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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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,	-

	MASTER'S DEGREE IN PHYSIOTHERAPY OF THE THORAX COURSE GUIDE	EUIF GIMBERNAT Physiotherapy
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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			
Title	Description		

Others			
Title	Description		

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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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		

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

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

- Coordination

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Professor's Name	JEAN BERNARD MICHOTTE
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Tutorial Schedule	To Be Arranged

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Tutorial Schedule	To Be Arranged

Professor's Name	ROSER SAUMENCH PERRAMON
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Tutorial Schedule	To Be Arranged

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Tutorial Schedule	To Be Arranged

Professor's Name	MARC TOBET SECALL
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Tutorial Schedule	To Be Arranged

PREREQUISITES

- There are no official prerequisites

	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.
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.
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)

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.

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

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)

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. 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

<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>

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

	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%	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

Audiovisual material

	MASTER'S DEGREE IN PHYSIOTHERAPY OF THE THORAX COURSE GUIDE	EUIF GIMBERNAT Physiotherapy
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Title	Description		

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

Articles						
Author	Title	Journal	Volume	Year	Pages	Description/ Commentary

Web references			
Title	Description	URL	

Audiovisual material			
Title	Description		

Others			
Title	Description		

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

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

- Coordination

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	MASTER'S DEGREE IN PHYSIOTHERAPY OF THE THORAX COURSE GUIDE	EUIF GIMBERNAT Physiotherapy
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Tutorial Schedule	To Be Arranged

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.

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

<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.
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TEACHING METHODOLOGY AND FORMATIVE ACTIVITIES

	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 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

<p>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.</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. 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	

	MASTER'S DEGREE IN PHYSIOTHERAPY OF THE THORAX COURSE GUIDE	EUIF GIMBERNAT Physiotherapy
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Audiovisual material			
Title	Description		

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

Articles						
Author	Title	Journal	Volume	Year	Pages	Description/ Commentary

Web references			
Title	Description	URL	
BRN Reviews	Barcelona Respiratory Network Reviews		

Audiovisual material			
Title	Description		

Others			
Title	Description		

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

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

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- Faculty data

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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

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

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

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

<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>
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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	-

 <p>escoles universitàries gimbernat i Tomàs Cerdà</p> <p>ADSCRITA A LA UPM</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.

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

MODULE INFORMATION

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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	MASTER'S DEGREE IN PHYSIOTHERAPY OF THE THORAX COURSE GUIDE	EUIF GIMBERNAT Physiotherapy
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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.
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General/Transversal Competencies (learning outcomes are not required)

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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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.
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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.
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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

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

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.

	MASTER'S DEGREE IN PHYSIOTHERAPY OF THE THORAX COURSE GUIDE	EUIF GIMBERNAT Physiotherapy
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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		
Title	Description	URL

	MASTER'S DEGREE IN PHYSIOTHERAPY OF THE THORAX COURSE GUIDE	EUIF GIMBERNAT Physiotherapy
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<u>BRN Reviews</u>	Barcelona Respiratory Network Reviews		

Audiovisual material			
Title	Description		

Others			
Title	Description		

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BIBLIOGRAPHY AND WEB LINKS / COMPLEMENTARY SOURCES OF INFORMATION

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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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