

# **Master's Degree in OSTEOPATHY**

## **Module Course Guides (First year)**

**Academic year 2020-21**

## GENERAL INFORMATION

### MODULE INFORMATION

Module 1	<b>OSTEOPATHIC THEORY AND TECHNOLOGY OF THE LOCOMOTIVE SYSTEM I</b>		
Code	<b>44298</b>	Academic year	<b>2020-21</b>
ECTS credits	<b>12</b>	Module type	<b>Compulsory</b>
Year	<b>1</b>	Term	<b>1</b>
Timetable	Available to students enrolled on this module via the virtual campus		
Teaching language	Spanish		

### FACULTY DATA

- Module leader

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Tutorial Schedule	<b>To be Arranged</b>

- Other faculty data

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## PREREQUISITES

- There are no official prerequisites

## MODULE CONTEXTUALIZATION

History and principles of Osteopathy and its development as a discipline within Health Sciences in different countries, with a particular focus on Spain.

Development of a clinical history that gathers all relevant information regarding the patient's health and that determines the appropriateness of osteopathic intervention.

In-depth study of relevant pathophysiology and clinical aspects and information provided by diagnostic imaging.

Peripheral locomotor system: necessary theoretical knowledge and clinical skills for the management of different clinical syndromes that affect the shoulder girdle and extremities.

Clinical reasoning and osteopathic treatment in different clinical areas.

## COMPETENCIES AND LEARNING OUTCOMES

### Specific Competencies

<b>Competency</b>	E01. Demonstrate knowledge of the sciences, models, techniques and instruments upon which osteopathy is based and developed.
Learning outcomes	E01.01 Identify and describe the sciences, models, techniques and instruments upon which structural osteopathy of the extremities is developed.
<b>Competency</b>	E02. Evaluate the patient/person from an osteopathy point of view with the aim of determining the appropriateness of intervention within the framework of osteopathy.
Learning outcomes	E02.01 Evaluate the structure and function of the lower extremity. E02.02 Evaluate the structure and function of the shoulder girdle and upper extremity.
<b>Competency</b>	E03. Produce an osteopathic diagnosis of the disorders and/or dysfunctions of different systems and organs.
Learning outcomes	E03.01 Present a hypothetical osteopathic diagnosis of the disturbances/dysfunctions of the lower extremity. E03.02 Present a hypothetical osteopathic diagnosis of the disturbances/dysfunctions of the upper extremity.
<b>Competency</b>	E04. Design an osteopathic intervention plan for the disorders and/or dysfunctions adjusted to the clinic and the needs of the patient/person.
Learning outcomes	E04.01 Produce an osteopathic intervention plan for the lower extremity. E04.02 Produce an osteopathic intervention plan for the shoulder girdle and upper extremity.
<b>Competency</b>	E05. Apply different osteopathic procedures, methods and treatment techniques

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appropriate to the clinic and the needs of the patient.	
Learning outcomes	E05.01 Treat the lower extremity using manipulative techniques of the soft tissue and joints.
	E05.02 Treat the upper extremity using manipulative techniques of the soft tissue and joints.

<b>Competency</b>	E06. Make decisions regarding the indication, progression, modifications and/or completion of an osteopathic intervention and, if necessary, referring the patient to another professional.
Learning outcomes	E06.01 Detect the unfavourable evolution of the treatment of the extremities that will imply the referral of the patient to another health professional.
	E06.02 Adapt the treatment of the extremities according to the clinical evolution of the patient.

<b>Competency</b>	E07. Indicate the most appropriate measures for disease prevention in each particular clinical situation.
Learning outcomes	E07.01 Estimate a preventive treatment regimen for the different structures of the extremities according to the patient's condition.

#### General/Transversal Competencies

<b>Competency</b>	GT01. Analyse, synthesise and make decisions in a given clinical situation.
Learning outcomes	GT01.01 Revise the physiological and biomechanical foundations upon which osteopathic techniques of the extremities are based.

<b>Competency</b>	GT02. Individually and collectively solve problems and adapt to the new situations that arise in professional practice.
Learning outcomes	GT02.01 Manage the resolution of problems presented in the classroom.

#### Basic Competencies

<b>Competency</b>	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.
<b>Competency</b>	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
<b>Competency</b>	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
<b>Competency</b>	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. HISTORY OF OSTEOPATHY


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<ol style="list-style-type: none"> <li>2. SEMIOLOGY I</li> <li>3. FUNCTIONAL ANATOMY I</li> <li>4. CLINICAL APPROACH AND OSTEOPATHIC MANUAL THERAPY APPLIED TO THE PERIPHERAL JOINTS</li> </ol>
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## TEACHING METHODOLOGY AND FORMATIVE ACTIVITIES

<p><b><u>DIRECTED ACTIVITIES:</u></b></p> <ul style="list-style-type: none"> <li><b>Theoretical lectures</b> providing the theoretical foundations for the functional evaluation of the patient and the choice of different treatment methods based on the diagnosis and clinical reasoning.</li> <li><b>Practical lectures</b> during which the lecturer will carry out the different techniques on a model.</li> <li><b>Presentation and resolution of clinical cases.</b> Clinical cases from which students should propose an assessment, treatment and clinical reasoning.</li> </ul> <p><b><u>SUPERVISED ACTIVITIES:</u></b></p> <ul style="list-style-type: none"> <li><b>Practical activities by students</b>, under the supervision of the lecturer, in order to apply the different techniques that have been presented.</li> <li><b>Tutorials</b> to monitor tasks.</li> </ul> <p><b><u>SELF-DIRECTED ACTIVITIES:</u></b></p> <ul style="list-style-type: none"> <li><b>Gathering and processing information</b></li> <li><b>Activities on the virtual campus</b></li> <li><b>Personal study</b> to organise notes and prepare for examinations.</li> <li><b>Reading of additional material</b> assessed through written tests.</li> </ul>
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TYPE OF ACTIVITY	ACTIVITY	LEARNING OUTCOMES	HOURS OF STUDENT DEDICATION
Directed activities	Theoretical-practical presentations and resolution of cases with ICT support	E01.01, E02.01, E02.02, E03.01, E03.02, E04.01, E04.02, E05.01, E05.02, E06.01, E06.02, E07.01, GT01.01, GT02.01	92
Supervised activities	Practical, individual or collective activities	E01.01, E02.01, E02.02, E03.01, E03.02, E04.01, E04.02, E05.01, E05.02, E06.01, E06.02, E07.01, GT02.01	58
	Follow-up tutorials	E01.01, E02.01, E02.02, E03.01, E03.02, E04.01, E04.02, E05.01, E05.02, E06.01, E06.02, E07.01, GT02.01	
Self-directed activities	Autonomous work by the student	E01.01, E02.01, E02.02, E03.01, E03.02, E04.01, E04.02, E06.01, E06.02, E07.01, GT01.01	150
<b>TOTAL HOURS</b>			<b>300</b>

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## ASSESSMENT

- Evaluation of the knowledge acquired in class through continuous assessment multiple choice examinations on the virtual campus for each subject in the module. 25% of the overall mark.
- Practical examinations to evaluate the student's manual exploration and treatment techniques and clinical reasoning in patient management. 65% of the overall mark.
- Attendance and active participation in class. 10% of the overall mark.

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

- Pass all blocks with an average mark of 5.
- Attend 100% of all taught classes (absences of up to 20% will be permitted for justified causes).
- Achieve an overall module mark of 5 or above.

1<sup>st</sup> term final assessment examination period from 27/01/2021 to 03/02/2021.

1<sup>st</sup> term final assessment resits from 04/02/2020 to 11/02/2020.

2<sup>nd</sup> term final assessment examination period from 09/06/2021 to 16/06/2021.

2<sup>nd</sup> term final assessment resits from 17/06/2021 to 24/06/2021.

Remark procedure: consult the center's assessment policy.

Any student who does not complete the programmed assessments or any of the formative activities that are deemed compulsory will be considered NON ASSESSABLE.

ASSESSMENT ACTIVITIES	PERCENTAGE OF THE FINAL MARK	LEARNING OUTCOMES	HOURS OF STUDENT DEDICATION
Theory exams Continuous assessment Moodle	25%	E01.01, E02.01, E02.02, E03.01, E03.02, E04.01, E04.02, E06.01, E06.02, E07.01, GT01.01	1
Individual practical exams	65%	E01.01, E02.01, E02.02, E03.01, E03.02, E04.01, E04.02, E05.01, E05.02, E06.01, E06.02, E07.01, GT02.01	1
Attendance and active participation in class	10%	-	-
<b>TOTAL HOURS</b>			<b>2</b>

## BIBLIOGRAPHY AND WEB LINKS / BASIC SOURCES OF INFORMATION

BOOKS				
Author/s	Year	Title	Edition	Publisher
Nicola J.Petty	2011	Neuromusculoskeletal Examination and Assessment: A Handbook for Therapists	4	Churchill Livingstone
Nicola J.Petty	2011	Principles of Neuromusculoskeletal Treatment and Management: A Handbook for Therapists	2	Churchill Livingstone
Chad Cook, Eric Hegedus	2011	Orthopedic Physical Examination Tests: An Evidence-Based Approach	2	Prentice Hall
David J. Magee	2007	Orthopedic Physical Assessment	5	Saunders (W.B.) Co Ltd
Chad Cook	2010	Orthopedic Manual Therapy	2	Prentice Hall
David Butler	2006	The Sensitive Nervous System	1	OPTP
Michael Shacklock	2008	Clinical Neurodynamics: A New System of Musculoskeletal Treatment	1	Elsevier
Brian Mulligan	2010	Manual Therapy: Nags, Snags, Mwms, Etc.	6	Orthopedic Physical Therapy
Elly Hengeveld, Kevin Banks	2005	Maitland's Peripheral Manipulation	4	Butterworth-Heinemann Ltd
Shirley Sahrman	2001	Diagnosis and Treatment of Movement Impairment Syndromes	1	Mosby
Mark Commerford Sarah Mottram	2012	Kinetic Control	1	Elsevier

ARTICLES						
Author	Title	Journal	Vol	Year	Pages	Commentary
Ho CY, Sole G, Munn J.	The effectiveness of manual therapy in the management of musculoskeletal disorders of the shoulder: a systematic review.	Manual Therapy	14(5)	2009	463-74	
Camarinós J, Marinko L.	Effectiveness of manual physical therapy for painful shoulder conditions: a systematic review.	J Man Manip Ther.	17(4)	2009	206-15	
Ellenbecker TS, Cools A.	Rehabilitation of shoulder impingement syndrome and rotator cuff injuries: an evidence-based review.	Br J Sports Med.	44(5)	2010	319-27	

Kelley MJ, McClure PW, Leggin BG.	Frozen shoulder: evidence and a proposed model guiding rehabilitation.	J Orthop Sports Phys Ther.	39(2)	2009	135-48	
Lewis JS.	Rotator cuff tendinopathy/subacromial impingement syndrome: is it time for a new method of assessment?	Br J Sports Med.	43(4)	2009	259-64	
Schellingerhout JM, Verhagen AP, Thomas S, Koes BW.	Lack of uniformity in diagnostic labeling of shoulder pain: time for a different approach.	Man Ther.	13(6)	2008	478-83	
Struyf F, Nijs J, Mottram S, Roussel NA, Cools AM, Meeusen R.	Clinical assessment of the scapula: a review of the literature.	Br J Sports Med.	[Epub ahead of print]	2012	[Epub ahead of print]	
Myer CA, Hegedus EJ, Tarara DT, Myer DM.	A user's guide to performance of the best shoulder physical examination tests	Br J Sports Med.	[Epub ahead of print]	2013	[Epub ahead of print]	
Hegedus EJ, Goode AP, Cook CE, Michener L, Myer CA, Myer DM, Wright AA.	Which physical examination tests provide clinicians with the most value when examining the shoulder? Update of a systematic review with meta-analysis of individual tests.	Br J Sports Med.	46(14)	2012	964-78	
Coombes BK, Bisset L, Vicenzino B.	A new integrative model of lateral epicondylalgia.	Br J Sports Med.	43(4)	2009	252-8	
Vicenzino B	Lateral epicondylalgia: a musculoskeletal physiotherapy perspective	Manual Therapy	8(2)	2003	66-79	
Brantingham JW, Cassa TK, Bonnefin D, Pribicevic M, Robb A, Pollard H, Tong V, Korporaal C.	Manipulative and Multimodal Therapy for Upper Extremity and Temporomandibular Disorders: A Systematic Review. 2013 May 20	J Manipulative Physiol Ther.	[Epub ahead of print]	2013	[Epub ahead of print]	
Brantingham JW, Bonnefin D, Perle SM, Cassa TK, Globe G, Pribicevic M, Hicks M, Korporaal C.	Manipulative therapy for lower extremity conditions: update of a literature review.	J Manipulative Physiol Ther.	35(2)	2012	127-66	
Nunes GS, Stapait EL, Kirsten MH, de Noronha M, Santos GM.	Clinical test for diagnosis of patellofemoral pain syndrome: Systematic review with meta-analysis.	Phys Ther Sport.	14(1)	2013	54-9	
Cook C, Mabry L, Reiman MP, Hegedus EJ.	Best tests/clinical findings for screening and diagnosis of patellofemoral pain syndrome: a systematic review.	Physiotherapy.	98(2)	2012	93-100	
Hegedus EJ, Cook C, Hasselblad V, Goode A, McCrory DC.	Physical examination tests for assessing a torn meniscus in the knee: a systematic review with meta-analysis. 2007 Sep;37(9):541-50	J Orthop Sports Phys Ther.	37(9)	2007	541-50	
Young D, Papp S, Giachino A.	Physical examination of the wrist.	Hand Clin.	26(1)	2010	21-36	



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## BIBLIOGRAPHY AND WEB LINKS / COMPLEMENTARY SOURCES OF INFORMATION

Books					
Author/s	Year	Title	Edition	Place	Publisher
MARTÍNEZ HERNÁNDEZ, A	2008	Antropología médica. Teorías sobre la cultura, el poder y la enfermedad	1st	BARCELONA	ANTHROPOS
PERA, C.	2006	Pensar desde el cuerpo. Ensayo sobre la corporeidad	1st	MADRID	TRISCATELA
PERDIGUERO, E. and COMELLES, J.M	2000	Medicina y Cultura. Estudios entre la Antropología y la Medicina	1st	BARCELONA	BELLATERRA
SENNETT, R.	2002	Flesh and Stone: The Body and the City in Western Civilization	1st	NEW YORK	NORTON
TURNER, V	1967	The forest of symbols	1st	NEW YORK	Cornell University Press
Rozman C.	2012	Medicina Interna		BARCELONA	ELSEVIER
García Conde, Merino Sánchez, González Macías.	2012	Patología General		NEW YORK	MARBAN
Ankel	2000	Primate anatomy			Academic Press
Aiello-Dean	1990	An introduction to human evolutionary anatomy			Academic Press
Llusà M, Merí À, Ruano D.	2004	Manual y atlas fotográfico de anatomía del aparato locomotor	1st	New York	Editorial Médica Panamericana
Kapandji IA.	1974	Cuadernos de fisiología articular	2nd	Barcelona	Toray-Masson
Schünke M, Schulte E, Schumacher U	2005	Prometheus. Texto y atlas de anatomía.	1st	Madrid	Editorial Médica Panamericana
Rouvière H, Delmas A.	1999	Anatomía humana descriptiva, topográfica y funcional	10th	Barcelona	Masson
Rohen JW, Yokochi C.	1989	Atlas fotográfico de anatomía humana	2nd	Barcelona	Ediciones Doyma
Chevrot A	2000	Diagnóstico por la imagen de las afecciones del pie			Elsevier
Recondo J.A	2001	Resonancia Magnética en el tobillo-pie			Diaz de Santos
Recondo J A	2007	Muñeca-Mano. Diagnóstico por la imagen. Énfasis en la RM			Diaz de Santos
J. L. del Cura, S. Pedraza, A. Gayete	2009	Radiología esencial			Médica Panamericana
Adam Greenspan	2000	Orthopedic radiology	3rd		Lippincott Williams and Wilkins
Stoller DW	2004	Diagnostic Imaging: Orthopaedics			Amirsys
Sans N., Lapèque F		Ecografía musculoesquelética			Elsevier-Masson
Sans N., Lapèque F	2006	Huesos y Articulaciones en Imágenes Radiológicas	3rd		Elsevier

## MODULE TIMETABLE

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

## GENERAL INFORMATION

### MODULE INFORMATION

Module 2	<b>OSTEOPATHIC THEORY AND TECHNOLOGY OF THE LOCOMOTIVE SYSTEM II</b>		
Code	<b>44299</b>	Academic year	<b>2020-21</b>
ECTS credits	<b>12</b>	Module type	<b>Compulsory</b>
Year	<b>1</b>	Term	<b>1</b>
Timetable	Available to students enrolled on this module via the virtual campus		
Teaching language	<b>Spanish</b>		

### FACULTY DATA

- Module leader

Professor's Name	<b>CESAR MAZÓN GODINO</b>
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Tutorial Schedule	<b>To be Arranged</b>

- Other faculty data:

Professor's Name	<b>OSCAR ATILLO TAIBO</b>
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Tutorial Schedule	<b>To be Arranged</b>

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Tutorial Schedule	<b>To be Arranged</b>

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Tutorial Schedule	<b>To be Arranged</b>

## PREREQUISITES

- There are no official prerequisites

## MODULE CONTEXTUALIZATION

Theoretical-practical module dedicated to the acquisition of concepts and the learning of procedures targeting capsular ligaments and myofascial soft tissue structures. Analyse their function and the repercussions that disorders of these structures may have on local, regional or general statics and dynamics. Clinical reasoning and usefulness as part of a global osteopathic treatment.

## COMPETENCIES AND LEARNING OUTCOMES

### Specific Competencies

<b>Competency</b>	E01. Demonstrate knowledge of the sciences, models, techniques and instruments upon which osteopathy is based and developed
Learning outcomes	E01.01 Understand the theory and techniques of the joints, capsular ligaments and myofascial soft tissues.
<b>Competency</b>	E02. Evaluate the patient/person from an osteopathy point of view with the aim of determining the appropriateness of intervention within the framework of osteopathy.
Learning outcomes	E02.01 Evaluate the patient for the application of techniques of the joints, capsular ligaments and myofascial soft tissues.
<b>Competency</b>	E03. Produce an osteopathic diagnosis of the disorders and/or dysfunctions of different systems and organs.
Learning outcomes	E03.01. Propose a hypothetical diagnosis in accordance with the structural examination.
<b>Competency</b>	E04. Design an osteopathic intervention plan adjusted to the clinic and the needs of the patient/person.
Learning outcomes	E04.01 Produce an intervention plan using techniques of the joints, capsular ligaments and myofascial soft tissues.
<b>Competency</b>	E05. Apply different osteopathic procedures, methods and treatment techniques appropriate to the clinic and the needs of the patient.
Learning outcomes	E05.01. Treat a patient using techniques of the joints, capsular ligaments and myofascial soft tissues.

### General/Transversal Competencies

<b>Competency</b>	GT01. Analyse, synthesise and make decisions in a given clinical situation.
Learning outcomes	GT01.01. Revise the physiological and biomechanical foundations upon which osteopathic capsular ligament and myofascial techniques are based.
<b>Competency</b>	GT02. Individually and collectively solve problems and adapt to the new situations that arise in professional practice.

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Learning outcomes	GT02.01. Manage the resolution of problems presented in the classroom.
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### Basic Competencies

<b>Competency</b>	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.
<b>Competency</b>	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
<b>Competency</b>	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
<b>Competency</b>	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. MYOFASCIAL THEORY AND TECHNIQUE
2. FUNCTIONAL THEORY AND TECHNIQUE I
3. GENERAL OSTEOPATHIC TREATMENT (GOT)

## TEACHING METHODOLOGY AND FORMATIVE ACTIVITIES

### DIRECTED ACTIVITIES:

- **Theoretical lectures** providing the theoretical foundations for the functional evaluation of the patient and the choice of different treatment methods based on the diagnosis and clinical reasoning.
- **Practical lectures** during which the lecturer will carry out the different techniques on a model.
- **Presentation and resolution of clinical cases.** Clinical cases from which the students should propose an assessment, treatment and clinical reasoning.

### SUPERVISED ACTIVITIES:

- **Practical activities by students**, under the supervision of the lecturer, in order to apply the different techniques that have been presented.
- **Tutorials** to monitor tasks.

### SELF-DIRECTED ACTIVITIES:

- **Gathering and processing information**


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- **Activities on the virtual campus**
- **Personal study** to organise notes and prepare for examinations.
- **Reading of additional material** assessed through written tests

TYPE OF ACTIVITY	ACTIVITY	LEARNING OUTCOMES	HOURS OF STUDENT DEDICATION
Directed activities	Theoretical-practical presentations and resolution of cases with ICT support	E01.01, E02.01, E03.01, E04.01, E05.01, GT01.01, GT02.01	114
Supervised activities	Practical, individual or collective activities	E01.01, E02.01, E03.01, E04.01, E05.01, GT02.01	36
	Follow-up tutorials		
Self-directed activities	Autonomous work by the student.	E01.01, E02.01, E03.01, E04.01, GT01.01	150
<b>TOTAL HOURS</b>			<b>300</b>

## ASSESSMENT

- Evaluation of the knowledge acquired in class through continuous assessment multiple choice examinations on the virtual campus for each subject in the module. 20% of the overall mark.
  - Practical examinations to evaluate the student's manual exploration and treatment techniques and clinical reasoning in patient management. 70% of the overall mark.
  - Attendance and participation in class. 10% of the overall mark.
- The following conditions must be met in order to pass the module:
- Pass each of the module subjects with an average mark of 5.
  - Attend 100% of all taught classes (absences of up to 20% will be permitted for justified causes).
  - Achieve an overall module mark of 5 or above,
- 1<sup>st</sup> term final assessment examination period from 27/01/2021 to 03/02/2021.  
 1<sup>st</sup> term final assessment resits from 04/02/2020 to 11/02/2020.
- 2<sup>nd</sup> term final assessment examination period from 09/06/2021 to 16/06/2021.  
 2<sup>nd</sup> term final assessment resits from 17/06/2021 to 24/06/2021.
- Remark procedure: consult the center's assessment policy.  
 Any student who does not complete the programmed assessments or any of the formative activities that are deemed compulsory will be considered NON ASSESSABLE.


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ASSESSMENT ACTIVITIES	PERCENTAGE OF THE FINAL MARK	LEARNING OUTCOMES	HOURS OF STUDENT DEDICATION
Theory exams Continuous assessment Moodle	20%	E01.01, E02.01, E03.01, E04.01, GT01.01	1
Individual practical exams	70%	E01.01, E02.01, E03.01, E04.01, E05.01, GT02.01	1
Attendance and active participation in class	10%	-	-
<b>TOTAL HOURS</b>			<b>2</b>

## BIBLIOGRAPHY AND WEB LINKS / BASIC SOURCES OF INFORMATION

BOOKS					
Author/s	Year	Title	Edition	Place	Publisher
Simons DG, Travell JG, Simons LS	1999	Myofascial Pain and Dysfunction: The Trigger Point Manual Upper half of body 2 ed.	2nd	Baltimore	Lippincott Williams & Wilkins
Travell JG, Simons DG.	1993	Myofascial Pain and Dysfunction: The Trigger Point Manual The lower extremities	1st	London	Lippincott Williams & Wilkins
Mayoral O, Salvat I, eds.	2013	Fisioteràpia Invasiva del Síndrome de dolor miofascial	1st	Madrid	Médica Panamericana
Chaitow Leon	1980	Neuro-muscular technique		Wellingborough	
Chaitow Leon	2001	Palpation Skills: Assessment and Diagnosis		New York	McGrawHill
Kalterborn	2004	Fisioteràpia manual	2nd	Madrid	McGrawHill
Mitchell Fred.L	1995	The muscle energy manual		Michigan	McNaughton&Gunn, inc Saline
Serge Paoletti		Las fascias			Paidotribo
Eric Hebgen		Osteopatía Visceral			McGrawHill
Andrej Pilat		Inducción Miofascial			McGrawHill
V.Smith-Agreda		Principios de anatomo-fisiopatología			Paidotribo
Myers, T.W		Anatomy Trains Myofascial Meridians for Manual and Movement Therapists			Elsevier
Perlemuter L,Waligora J		Cahiers d'anatomie			Masson

 <p>escoles universitàries gimbernà i Tomàs Cerdà ADSCRITA A LA UPB</p>	<b>MASTER'S DEGREE IN OSTEOPATHY</b> <b>COURSE GUIDE</b>	<b>EUIF GIMBERNAT</b> Physiotherapy
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Françoise Hématy-Vasseur	2009	Le TOG	1	France	Sully
J.M. Littlejohn	1998	On principles of osteopathy	1	Maidstone	JWCCO
J.M. Littlejohn	2010	The pathology of the osteopathic lesion	1	Maidstone	JWCCO
AT Still		Osteopathy research and practice	1	US	American academy of Osteopathy
J Wernham	1998		1	Maidstone	JWCCO
T Dummer	1999	Lectures on osteopathy	1	UK	Jo Tom Publications
		Textbook of osteopathy			

ARTICLES						
Author	Title	Journal	Vol	Year	Pages	Commentary
Various	Monográfico SDM	Fisioterapia	27(2)	2005		Although it is an old text, it is beneficial to students who aren't able to read other suggested articles in English.

## 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 3	<b>OSTEOPATHIC THEORY AND TECHNOLOGY OF THE LOCOMOTIVE SYSTEM III</b>		
Code	<b>44300</b>	Academic year	<b>2020-21</b>
ECTS credits	<b>6</b>	Module type	<b>Compulsory</b>
Year	<b>1</b>	Term	<b>2</b>
Timetable	Available to students enrolled on this module via the Virtual Campus		
Teaching language	<b>Spanish</b>		

### FACULTY DATA

- Module leader

Professor's Name	<b>JOAN PARERA TURULL</b>
Email	<b>joan.parera@eug.es</b>
Tutorial Schedule	<b>To be Arranged</b>

- Other faculty data

Professor's Name	<b>MARIA NEUS CIURANA MAYNEGRE</b>
Email	<b>marianeus.ciurana@eug.es</b>
Tutorial Schedule	<b>To be Arranged</b>

Professor's Name	<b>ALBERT CLARÀ VELASCO</b>
Email	<b>aclara@hospitaldelmar.cat</b>
Tutorial Schedule	<b>To be Arranged</b>

## PREREQUISITES

- There are no official prerequisites

## MODULE CONTEXTUALIZATION

The objective of this module is the acquisition of current theoretical knowledge on the semiology of



each of the clinical syndromes that affect the cervical, thoracic and lumbar spine and the pelvis.

Fundamental aspects such as anatomy and clinical biomechanics, aetiology, pathophysiology will be reviewed, as well as current treatment approaches. In this module, specific clinical reasoning will be developed around the most common clinical patterns of the spinal column. One relevant aspect of this module is the demonstration of current evidence of the treatment of clinical syndromes of the spine with the application of osteopathic techniques and specific therapeutic exercises.

This module will review existing knowledge of the pathology of the different joint systems of the cervical spine, such as cervical and lumbar discogenic pain, cervical and lumbar radiculopathy, facet syndrome, instability in both the lumbar and cervical regions, clinical syndromes of the thoracic region, pathology of the sacroiliac joints of the pelvis, cervicogenic headaches, as well as the alarm signs or the red flags indicating serious pathology that contraindicate the manual treatment of the patient.

## COMPETENCIES AND LEARNING OUTCOMES

### Specific Competencies

<b>Competency</b>	E02. Evaluate the patient/person from an osteopathy point of view with the aim of determining the appropriateness of intervention within the framework of osteopathy.
Learning outcomes	E02.01. Evaluate the structure and function of the spinal column, thoracic cavity and pelvis.

<b>Competency</b>	E03. Produce an osteopathic diagnosis of the disorders and/or dysfunctions of different systems and organs.
Learning outcomes	E03.01 Propose a hypothetical osteopathic diagnosis of the disorders/dysfunctions of the spinal column, thoracic cavity and pelvis.

<b>Competency</b>	E04. Design an osteopathic intervention plan adjusted to the clinic and the needs of the patient/person.
Learning outcomes	E04.01 Produce an osteopathic intervention plan for the spinal column, thoracic cavity and pelvis.

### General/Transversal Competencies

<b>Competency</b>	GT01. Analyse, synthesise and make decisions in a given clinical situation.
Learning outcomes	GT01.01 Revise the physiological and biomechanical foundations upon which osteopathic techniques for the spinal column, thoracic cavity and pelvis are based.

<b>Competency</b>	GT02. Individually and collectively solve problems and adapt to the new situations that arise in professional practice.
Learning outcomes	GT.02.01 Manage the resolution of problems presented in the classroom.

### Basic Competencies

<b>Competency</b>	CB06. Possess and understand knowledge that provides a basis or opportunity for
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<b>Competency</b>	originality in the development and/or application of ideas, often in a research context. 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
<b>Competency</b>	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
<b>Competency</b>	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. FUNCTIONAL ANATOMY II
2. IMAGING DIAGNOSTICS TECHNIQUES IN THE MUSKULOSKELETAL SYSTEM II
3. SEMIOLOGY II
4. CLINICAL SYNDROMES OF THE SPINAL COLUMN, THORACIC CAVITY AND PELVIS

## TEACHING METHODOLOGY AND FORMATIVE ACTIVITIES

### DIRECTED ACTIVITIES:

- **Theoretical lectures** providing the theoretical foundations for the functional evaluation of the patient and the choice of different treatment methods based on the diagnosis and clinical reasoning.
- **Presentation and resolution of clinical cases.** Clinical cases from which the students should propose an assessment, treatment and clinical reasoning.

### SUPERVISED ACTIVITIES:

- **Tutorials** to monitor tasks.

### SELF-DIRECTED ACTIVITIES:

- **Gathering and processing information**
- **Activities on the virtual campus**
- **Personal study** to organise notes and prepare for examinations.
- **Reading of additional material** assessed through written tests

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TYPE OF ACTIVITY	ACTIVITY	LEARNING OUTCOMES	HOURS OF STUDENT DEDICATION
Directed activities	Theoretical-practical presentations and resolution of cases with ICT support	E02.01, E03.01, E04.01, GT01.01, GT02.01	50
Supervised activities	Practical, individual or collective activities	E02.01, E03.01, E04.01GT02.01	25
	Follow-up tutorials		
Self-directed activities	Autonomous work by the student	E02.01, E03.01, E04.01, GT01.01	75
<b>TOTAL HOURS</b>			<b>150</b>

## ASSESSMENT

- Evaluation of the knowledge acquired in class through continuous assessment multiple choice examinations on the virtual campus for each subject in the module. 55% of the overall mark
- Practical examinations to evaluate the student's manual exploration techniques and clinical reasoning in patient management. 35% of the overall mark.
- Attendance and active participation in class. 10% of the overall mark.

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

- Pass all blocks with an average mark of 5.
- Attend 100% of all taught classes (absences of up to 20% will be permitted for justified causes).
- Achieve an overall module mark of 5 or above,

1<sup>st</sup> term final assessment examination period from 27/01/2021 to 03/02/2021.

1<sup>st</sup> term final assessment resits from 04/02/2020 to 11/02/2020.

2<sup>nd</sup> term final assessment examination period from 09/06/2021 to 16/06/2021.

2<sup>nd</sup> term final assessment resits from 17/06/2021 to 24/06/2021.

Remark procedure: consult the center's assessment policy.

Any student who does not complete the programmed assessments or any of the formative activities that are deemed compulsory will be considered NON ASSESSABLE.

ASSESSMENT ACTIVITIES	PERCENTAGE OF THE FINAL	LEARNING OUTCOMES	HOURS OF STUDENT
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	MARK		DEDICATION
Theory exams Continuous assessment Moodle	55%	E02.01, E03.01, E04.01, GT01.01	0.5
Individual practical exams	35%	E02.01, E03.01, E04.01, GT02.01	0.5
Attendance and active participation in class	10%	-	-
<b>TOTAL HOURS</b>			<b>1</b>

## BIBLIOGRAPHY AND WEB LINKS / BASIC SOURCES OF INFORMATION

Books					
Author/s	Year	Title	Edition	Place	Publisher
Ankel	2000	Primate anatomy			Academic Press
Aiello-Dean	1990	An introduction to human evolutionary anatomy			Academic Press
Llusà M, Merí À, Ruano D.	2004	Manual y atlas fotográfico de anatomía del aparato locomotor	1st	Madrid	Editorial Médica Panamericana
Kapandji IA.	1974	Cuadernos de fisiología articular	2nd	Wellingborough	Toray-Masson
Schünke M, Schulte E, Schumacher U	2005	Prometheus. Texto y atlas de anatomía.	1st	Madrid	Editorial Médica Panamericana
Rouvière H, Delmas A.	1999	Anatomía humana descriptiva, topográfica y funcional	10th	Barcelona	Masson
Rohen JW, Yokochi C.	1989	Atlas fotográfico de anatomía humana	2nd	Barcelona	Ediciones Doyma
Chevrot A	2000	Diagnóstico por la imagen de las afecciones del pie			Elsevier
Recondo J.A	2001	Resonancia Magnética en el tobillo-pie			Diaz de Santos
Recondo J A	2007	Muñeca-Mano. Diagnóstico por la imagen. Énfasis en la RM			Diaz de Santos
J. L. del Cura, S. Pedraza, A. Gayete	2009	Radiología esencial			Médica Panamericana
Adam Greenspan	2000	Orthopedic Radiology	3rd		Lippincott Williams and Wilkins
Stoller DW	2004	Diagnostic Imaging: Orthopaedics			Amirsys
Sans N., Lapèque F		Ecografía musculoesquelética			Elsevier
Sans N., Lapèque F	2000	Huesos y Articulaciones en Imágenes Radiológicas	3rd		Elsevier
Torres-Cueco R.	2008	La Columna Cervical: Evaluación Clínica y Aproximaciones Terapéuticas.		Madrid	Médica Panamericana
Torres-Cueco R.	2008	La Columna Cervical: Síndromes Clínicos y su Tratamiento Manipulativo.		Madrid	Médica Panamericana
Petty, NJ.	2001	Neuromusculoskeletal Examination and Assessment: A Handbook for Therapists			Churchill Livingstone
Bogduk, N.	2005	Clinical Anatomy of the Lumbar	4th		Elsevier

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		Spine And Sacrum		
Dutton M.	2002	Manual Therapy of the Spine: an integrated approach		Mc Graw Hill
Jone, MA, Rivett DA	2004	Clinical reasoning for manual therapists		Butterwoth Heinemann
Cleland J.	2016	Netter's Orthopaedic Clinical Examination An Evidence-based Approach		Elsevier
Beeton KS	2003	Manual Therapy Masterclasses: the vertebral column		Elsevier
Bogduk N, McGuirl, B.	2006	Management of acute and chronic neck pain: an evidence based approach		Elsevier
Boyling JD, Jull GA.	2004	Modern Manual Therapy: The Vertebral Column	3rd	Elsevier
Adams M, Burton K , Bogduk N, Dolan P.		The Biomechanics of Back Pain	2nd	Churchill Livinstone
Vleeming A, Mooney V, Stoeckart	2007	Movement, Stability & Lumbopelvic Pain: Integration of Research and Therapy	2nd	Elsevier
Lee, D.	2011	Pelvic Girdle: An integration of clinical expertise and research	4th	Elsevier

## MODULE TIMETABLE

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

## GENERAL INFORMATION

### MODULE INFORMATION

Module 4	<b>OSTEOPATHIC THEORY AND TECHNOLOGY OF THE LOCOMOTIVE SYSTEM IV</b>		
Code	<b>44300</b>	Academic year	<b>2020-21</b>
ECTS credits	<b>9</b>	Module type	<b>Compulsory</b>
Year	<b>1</b>	Term	<b>2</b>
Timetable	Available to students enrolled on this module via the virtual campus		
Teaching language	<b>Spanish</b>		

### FACULTY DATA

- Module leader

Professor's Name	<b>JOAN PARERA TURULL</b>
Email	<b>joan.parera@eug.es</b>
Tutorial Schedule	<b>To be Arranged</b>

- Other faculty data

Professor's Name	
Email	
Tutorial Schedule	

## PREREQUISITES

- There are no official prerequisites

## MODULE CONTEXTUALIZATION

The objective of this module is to learn the procedures and manual skills for the assessment and osteopathic treatment of the cervical and dorsal spine and thoracic cavity.


Together with the different passive manipulation methods and techniques, active methods such as those targeted at the treatment of instability and improved neuromuscular control of the spinal column will be used.

The module addresses the assessment and osteopathic treatment of the different clinical syndromes of the cervical and dorsal spine and thoracic cavity. The procedures for assessing clinical syndromes will include the study of their sensitivity and specificity. Evidence of the effectiveness of each of the treatment techniques used will also be analysed.

## COMPETENCIES AND LEARNING OUTCOMES

### Specific Competencies

<b>Competency</b>	E01. Demonstrate knowledge of the sciences, models, techniques and instruments upon which osteopathy is based and developed.
Learning outcomes	<p>E01.01. Understand the sciences, models, techniques and instruments upon which the structural osteopathy of the spinal column and thoracic cavity is based.</p> <p>E01.02 Identify the sciences, models, techniques and instruments upon which the structural osteopathy of the cervical spine is based and developed.</p>
<b>Competency</b>	E02. Evaluate the patient/person from an osteopathy point of view with the aim of determining the appropriateness of intervention within the framework of osteopathy.
Learning outcomes	<p>E02.01 Evaluate the structure and function of the dorsal spine and thoracic cavity.</p> <p>E02.02 Evaluate the structure and function of the cervical spine.</p>
<b>Competency</b>	E03. Produce an osteopathic diagnosis of the disorders and/or dysfunctions of different systems and organs.
Learning outcomes	<p>E03.01 Present a hypothetical osteopathic diagnosis of the disturbances/dysfunctions of the dorsal spine and thoracic cavity.</p> <p>E03.02 Present a hypothetical osteopathic diagnosis of the disturbances/dysfunctions of the cervical spine.</p>
<b>Competency</b>	E04. Design an osteopathic intervention plan for the disorders and/or dysfunctions adjusted to the clinic and the needs of the patient/person.
Learning outcomes	<p>E04.01 Produce an osteopathic intervention plan for the dorsal spine and thoracic cavity.</p> <p>E.04.02. Produce an osteopathic intervention plan for the cervical spine.</p>
<b>Competency</b>	E05. Apply different osteopathic procedures, methods and treatment techniques appropriate to the clinic and the needs of the patient.
Learning outcomes	<p>E05.01 Treat the dorsal spine and thoracic cavity using manipulative techniques of the soft tissue and joints.</p> <p>E05.02. Treat the cervical spine using manipulative techniques of the soft tissue and joints.</p>
<b>Competency</b>	E06. Make decisions regarding the indication, progression, modifications and/or completion of an osteopathic intervention and, if necessary, referring the patient to another professional.
Learning outcomes	E06.01. Detect the unfavourable evolution of the treatment of the

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	dorsal and cervical spine and thoracic cavity that will imply the referral of the patient to another health professional.
	E06.02. Adapt the treatment of the dorsal and cervical spine and thoracic cavity in line with the clinical evolution of the patient.

<b>Competency</b>	E07. Indicate the most appropriate measures for disease prevention in each particular clinical situation.
Learning outcomes	E07.01. Estimate a preventive treatment regimen for the different structures of the dorsal and cervical spine and thoracic cavity according to the patient's condition.

### General/Transversal Competencies

<b>Competency</b>	GT01. Analyse, synthesise and make decisions in a given clinical situation.
Learning outcomes	GT01.01. Revise the physiological and biomechanical foundations upon which osteopathic techniques for the spinal column, thoracic cavity and pelvis are based.

<b>Competency</b>	GT02. Individually and collectively solve problems and adapt to the new situations that arise in professional practice.
Learning outcomes	GT02.01 Manage the resolution of problems presented in the classroom.

### Basic Competencies

<b>Competency</b>	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.
<b>Competency</b>	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
<b>Competency</b>	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
<b>Competency</b>	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. CLINICAL APPROACH AND PHYSICAL EVALUATION OF THE CERVICAL AND DORSAL SPINE AND THE THORACIC CAVITY
2. OSTEOPATHIC MANUAL THERAPY OF THE CERVICAL AND DORSAL SPINE AND THE THORACIC CAVITY



## TEACHING METHODOLOGY AND FORMATIVE ACTIVITIES

### DIRECTED ACTIVITIES:

- **Theoretical lectures** providing the theoretical foundations for the functional evaluation of the patient and the choice of different treatment methods based on the diagnosis and clinical reasoning.
- **Practical lectures** during which the lecturer will carry out the different techniques on a model.
- **Presentation and resolution of clinical cases.** Clinical cases from which students should propose an assessment, treatment and clinical reasoning.

### SUPERVISED ACTIVITIES:

- **Practical activities by students**, under the supervision of the lecturer, in order to apply the different techniques that have been presented.
- **Tutorials** to monitor tasks.

### SELF-DIRECTED ACTIVITIES:

- **Gathering and processing information**
- **Activities on the virtual campus**
- **Personal study** to organise notes and prepare for examinations.
- **Reading of additional material** assessed through written tests

TYPE OF ACTIVITY	ACTIVITY	LEARNING OUTCOMES	HOURS OF STUDENT DEDICATION
Directed activities	Theoretical-practical presentations and resolution of cases with ICT support	E01.01, E01.02, E02.01, E02.02, E03.01, E03.02, E04.01, E04.02, E05.01, E05.02, E06.01, E06.02, E07.01, GT01.01, GT02.01	72
Supervised activities	Practical activities by students	E01.01, E01.02, E02.01, E02.02, E03.01, E03.02, E04.01, E04.02, E05.01, E05.02, E06.01, E06.02, E07.01, GT02.01	39
	Monitoring tutorials	GT01.01 GT02.01	1
Self-directed activities	Research, information processing and self-study work.	E01.01, E02.01, E02.02, E03.01, E03.02, E04.01, E04.02, E06.01, E06.02, E07.01, GT01.01	113
<b>TOTAL HOURS</b>			<b>225</b>

## ASSESSMENT

- Evaluation of the knowledge acquired in class through continuous assessment multiple choice examinations on the virtual campus for each subject in the module. 25% of the overall mark.
- Practical examinations to evaluate the student's manual exploration and treatment techniques and clinical reasoning in patient management. 65% of the overall mark.
- Attendance and active participation in class. 10% of the overall mark.

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

- Pass all blocks with an average mark of 5.
- Attend 100% of all taught classes (absences of up to 20% will be permitted for justified causes)
- Achieve an overall module mark of 5 or above,

1<sup>st</sup> term final assessment examination period from 27/01/2021 to 03/02/2021.

1<sup>st</sup> term final assessment resits from 04/02/2020 to 11/02/2020.

2<sup>nd</sup> term final assessment examination period from 09/06/2021 to 16/06/2021.

2<sup>nd</sup> term final assessment resits from 17/06/2021 to 24/06/2021.

Remark procedure: consult the center's assessment policy.

Any student who does not complete the programmed assessments or any of the formative activities that are deemed compulsory will be considered NON ASSESSABLE.

ASSESSMENT ACTIVITIES	PERCENTAGE OF THE FINAL MARK	LEARNING OUTCOMES	HOURS OF STUDENT DEDICATION
Theory exams Continuous assessment Moodle	25%	E01.01, E02.01, E02.02, E03.01, E03.02, E04.01, E04.02, E06.01, E06.02, E07.01, GT01.01	1
Individual practical exams	65%	E01.01, E02.01, E02.02, E03.01, E03.02, E04.01, E04.02, E05.01, E05.02, E06.01, E06.02, E07.01, GT02.01	1
Attendance and active participation in class	10%	-	-
<b>TOTAL HOURS</b>			<b>2</b>

## BIBLIOGRAPHY AND WEB LINKS / BASIC SOURCES OF INFORMATION

BOOKS				
Author/s	Year	Title	Edition	Publisher
Torres-Cueco R.	2008	La Columna Cervical: Evaluación Clínica y Aproximaciones Terapéuticas	Madrid	Médica Panamericana
Torres-Cueco R.	2008	La Columna Cervical: Síndromes Clínicos y su Tratamiento Manipulativo	Madrid	Médica Panamericana
Petty, NJ.	2001	Neuromusculoskeletal Examination and Assessment: A Handbook for Therapists		Churchill Livingstone
Bogduk, N.	2005	Clinical Anatomy of the Lumbar Spine And Sacrum	4th	Elsevier
Dutton M.	2002	Manual Therapy of the Spine: an integrated approach		Mc Graw Hill
Jone, MA, Rivett DA	2004	Clinical reasoning for manual therapists		Butterworth Heinemann
Cleland J.	2006	Netter's Orthopaedic Clinical Examination An Evidence-based Approach		Elsevier
Beeton KS	2003	Manual Therapy Masterclasses: the vertebral column		Elsevier
Bogduk N, McGuirl, B.	2006	Management of acute and chronic neck pain: an evidence based approach		Elsevier
Boyling JD, Jull GA.	2004	Modern Manual Therapy: The Vertebral Column	3rd	Elsevier
Adams M, Burton K , Bogduk N, Dolan P.		The Biomechanics of Back Pain	2nd	Churchill Livingstone
Vleeming A, Mooney V, Stoeckart	2007	Movement, Stability & Lumbopelvic Pain: Integration of Research and Therapy	2nd	Elsevier
Lee, D.	2011	Pelvic Girdle: An integration of clinical expertise and research	4th	Elsevier
American Osteopathic Association.	2012	Foundations of Osteopathic Medicine		Lippincott Williams & Wilkins
Amigues JP.	2005	Compendio de osteopatía. Teoría y práctica.	1st	McGraw-Hill/Interamericana
Bienfait M.	2006	Bases fisiológicas de la terapia manual y la osteopatía		Paidotribo
Cailliet R,	2006	Anatomía funcional biomecánica		Marban
Cailliet R.	1994	Incapacidad y dolor en tejidos blandos	Mexico	El Manual Moderno
Calais, B.	1988	Anatomía para el movimiento		Saint-Etienne, impressions Dumas
Chaitow L.	2000	Palpation skills : assessment and diagnosis through touch		Churchill Livingstone
Clem W. Thompson, R. T. Floyd	2018	Manual of Structural Kinesiology		McGraw-Hill
Cloet E, Ranson G, Schallier F.	2000	La osteopatía práctica		McGraw-Hill
Coux de G, Curtil P.	2002	Tratado de osteopatía estructural		McGraw-Hill
Dvorack J. Dvorack V.	1989	Medicina manual – Diagnostico	Barcelona	Scriba
Dvorack J. Dvorack V.	1989	Medicina manual – Terapéutica	Barcelona	Scriba
Derek Field	2004	Anatomy : palpation and surface markings		Butterworth-Heinemann

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Fryette HH	1993	Principes de la technique osteopathique	1st	Frison-Roche
Gibbons P	2002	Manipulación de la columna, el torax y la pelvis		Interamericana
Greenman PE	2005	Principles and Practices of Hands on Medicine	3rd	Médica Panamericana
Hoppenfeld Stanley	2019	Physical examination of the spine and extremities	New York	Prentice Hall
Joshua Cleland	2015	Netter's Orthopaedic Clinical Examination An Evidence-based Approach		Elsevier
Kaltenborn FM	2004	Fisioterapia manual en columna	Madrid 2nd	Mc Graw Hill Interamericana
Kapandji IA	2007	The physiology of the joints. Volume 3: the trunk and vertebral column	6th	Churchill Livingstone
Kendall F	2005	Muscles testing and function	5th	Lippincott, Williams & Wilkins
Korr IM	1982	The Physiological Basis Of Osteopathic Medicine		Insight Publishing
Le Corre F., Rageot E.	1995	Manipulaciones vertebrales	Barcelona 2nd	Elsevier
Maitland, G.D.	2006	Maitland Vertebral manipulation	8th	Churchill Livingstone Elsevier
Nigel Palastanga, Derek Field, Roger Soames	2019	Anatomy and human movement: structure and function		Elsevier
Parsons J.	2007	Osteopathy : models for diagnosis, treatment and practice		Churchill Livingstone
Ricard F.	2007	Tratamiento Osteopático de las Algias del Raquis Torácico		Panamericana
Ricard F.	2005	Tratamiento Osteopático de las Algias Lumbopélvicas	Madrid 3rd	Panamericana
Ricard F, Salle J.	2003	Tratado de Osteopatía		Panamericana
Kendall FP	2010	Muscles: testing and function with posture and pain	5th	Marban
Tixa, Serge.	2006	Atlas de anatomia palpatoria. cuello tronco y miembro superior. Tomo 1	1st	Elsevier

## MODULE TIMETABLE

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

## GENERAL INFORMATION

### MODULE INFORMATION

Module 5	<b>OSTEOPATHIC THEORY AND TECHNOLOGY OF THE LOCOMOTIVE SYSTEM V</b>		
Code	<b>44302</b>	Academic year	<b>2020-21</b>
ECTS Credits	<b>12</b>	Module type	<b>Compulsory</b>
Year	<b>1</b>	Term	<b>2</b>
Timetable	Available to students enrolled on this module via the virtual campus		
Teaching language	<b>Spanish</b>		

### FACULTY DATA

- Module leader

Professor's Name	<b>MIGUEL ANGEL GALAN MARTIN</b>
Email	<b>miguelangel.galan@eug.es</b>
Tutorial Schedule	<b>To be Arranged</b>

- Other faculty data

Professor's Name	<b>FEDERICO MONTERO CUADRADO</b>
Email	<b>federico.montero@eug.es</b>
Tutorial Schedule	<b>To be Arranged</b>

## PREREQUISITES

- There are no official prerequisites

## MODULE CONTEXTUALIZATION

The objective of this module is to learn the procedures and manual skills for the evaluation and osteopathic treatment of the lumbar spine and pelvis.

Together with the different passive manipulation methods and techniques, active methods such as those targeted at the treatment of instability and improved neuromuscular control of the spinal column will be used.

The module addresses the evaluation and osteopathic treatment of the different clinical syndromes of the lumbar spine and pelvis. The procedures for assessing clinical syndromes will include the study of

their sensitivity and specificity. Evidence of the effectiveness of each of the treatment techniques used will also be analysed.

## COMPETENCIES AND LEARNING OUTCOMES

### Specific Competencies

<b>Competency</b>	E01. Demonstrate knowledge of the sciences, models, techniques and instruments upon which osteopathy is based and developed.
Learning outcomes	<p>E01.01. E01.01 Identify and describe the sciences, models, techniques and instruments upon which structural osteopathy of the lumbar spine is developed.</p> <p>E01.02 Identify the sciences, models, techniques and instruments upon which structural osteopathy of the pelvis is developed.</p>
<b>Competency</b>	E02. Evaluate the patient/person from an osteopathy point of view with the aim of determining the appropriateness of intervention within the framework of osteopathy.
Learning outcomes	<p>E02.01 Evaluate the structure and function of the lumbar spine.</p> <p>E02.02 Evaluate the structure and function of the pelvis.</p>
<b>Competency</b>	E03. Produce an osteopathic diagnosis of the disorders and/or dysfunctions of different systems and organs.
Learning outcomes	<p>E03.01 Present a hypothetical osteopathic diagnosis of the disturbances/dysfunctions of the lumbar spine.</p> <p>E03.02 Present a hypothetical osteopathic diagnosis of the disturbances/dysfunctions of the pelvis.</p>
<b>Competency</b>	E04. Design an osteopathic intervention plan for the disorders and/or dysfunctions adjusted to the clinic and the needs of the patient/person.
Learning outcomes	<p>E.04.02 Produce an osteopathic intervention plan for the lumbar spine.</p> <p>E.04.02 Produce an osteopathic intervention plan for the pelvis.</p>
<b>Competency</b>	E05. Apply different osteopathic procedures, methods and treatment techniques appropriate to the clinic and the needs of the patient.
Learning outcomes	<p>E05.02 Treat the lumbar spine using manipulative techniques of the soft tissue and joints.</p> <p>E05.02 Treat the pelvis using manipulative techniques of the soft tissue and joints.</p>
<b>Competency</b>	E06. Make decisions regarding the indication, progression, modifications and/or completion of an osteopathic intervention and, if necessary, referring the patient to another professional.
Learning outcomes	<p>E06.01 Detect the unfavourable evolution of the treatment of the lumbar spine and pelvis that will imply the referral of the patient to another health professional.</p> <p>E06.02 Adapt the treatment of the lumbar spine and pelvis in line with the clinical evolution of the patient.</p>

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<b>Competency</b>	E07 Indicate the most appropriate measures for disease prevention in each particular clinical situation.
Learning outcomes	E07.01 Estimate a preventive treatment regimen for the different structures of the lumbar spine and pelvis according to the patient's condition.

#### General/Transversal Competencies

<b>Competency</b>	GT01 Analyse, synthesise and make decisions in a given clinical situation.
Learning outcomes	GT01.01 Revise the physiological and biomechanical foundations upon which osteopathic techniques for the lumbar spine and pelvis are based.

<b>Competency</b>	GT02 Individually and collectively solve problems and adapt to the new situations that arise in professional practice.
Learning outcomes	GT02.01 Manage the resolution of problems presented in the classroom.

#### Basic Competencies

<b>Competency</b>	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.
<b>Competency</b>	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
<b>Competency</b>	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
<b>Competency</b>	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. CLINICAL APPROACH AND PHYSICAL EVALUATION OF THE PELVIS AND LUMBAR SPINE
2. OSTEOPATHIC MANUAL THERAPY OF THE PELVIS AND LUMBAR SPINE

## TEACHING METHODOLOGY AND FORMATIVE ACTIVITIES

#### DIRECTED ACTIVITIES:

- **Theoretical lectures** providing the theoretical foundations for the functional evaluation of the patient and the choice of different treatment methods based on the diagnosis and clinical reasoning.
- **Practical lectures** during which the lecturer will carry out the different techniques on a model.

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- **Presentation and resolution of clinical cases.** Clinical cases for which the students should propose an assessment, treatment and clinical reasoning.
- SUPERVISED ACTIVITIES:**
- **Practical activities by students,** under the supervision of the lecturer, in order to apply the different techniques that have been presented.
  - **Tutorials** to monitor tasks
- SELF-DIRECTED ACTIVITIES:**
- **Gathering and processing information**
  - **Activities on the virtual campus**
  - **Personal study** to organise notes and prepare for examinations.
  - **Reading of additional material** assessed through written tests

TYPE OF ACTIVITY	ACTIVITY	LEARNING OUTCOMES	HOURS OF STUDENT DEDICATION
Directed activities	Theoretical-practical presentations and resolution of cases with ICT support	E01.01, E02.01, E02.02, E03.01, E03.02, E04.01, E04.02, E05.01, E05.02, E06.01, E06.02, E07.01, GT01.01, GT02.01	78
Supervised activities	Practical activities by students	E01.01, E02.01, E02.02, E03.01, E03.02, E04.01, E04.02, E05.01, E05.02, E06.01, E06.02, E07.01, GT02.01	71
	Monitoring tutorials	GT01.01 GT02.01	1
Self-directed activities	Research, information processing and self-study work.	E01.01, E02.01, E02.02, E03.01, E03.02, E04.01, E04.02, E06.01, E06.02, E07.01, GT01.01	150
<b>TOTAL HOURS</b>			<b>300</b>

## ASSESSMENT

- Evaluation of the knowledge acquired in class through continuous assessment multiple choice examinations on the virtual campus for each subject in the module. 25% of the overall mark
- Practical examinations to evaluate the student's manual exploration and treatment techniques and clinical reasoning in patient management. 65% of the overall mark.
- Attendance and active participation in class. 10% of the overall mark.



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

- Pass all blocks with an average mark of 5.
- Attend 100% of all taught classes (absences of up to 20% will be permitted for justified causes)
- Achieve an overall module mark of 5 or above,

1<sup>st</sup> term final assessment examination period from 27/01/2021 to 03/02/2021.

1<sup>st</sup> term final assessment resits from 04/02/2020 to 11/02/2020.

2<sup>nd</sup> term final assessment examination period from 09/06/2021 to 16/06/2021.

2<sup>nd</sup> term final assessment resits from 17/06/2021 to 24/06/2021.

Remark procedure: consult the center's assessment policy.

Any student who does not complete the programmed assessments or any of the formative activities that are deemed compulsory will be considered NON ASSESSABLE.

ASSESSMENT ACTIVITIES	PERCENTAGE OF THE FINAL MARK	LEARNING OUTCOMES	HOURS OF STUDENT DEDICATION
Theory exams Continuous assessment Moodle	25%	E01.01, E02.01, E02.02, E03.01, E03.02, E04.01, E04.02, E06.01, E06.02, E07.01, GT01.01	0.5
Individual practical exams	65%	E01.01, E02.01, E02.02, E03.01, E03.02, E04.01, E04.02, E05.01, E05.02, E06.01, E06.02, E07.01, GT02.01	1
Attendance and active participation in class	10%	-	-
<b>TOTAL HOURS</b>			<b>1.5</b>

## BIBLIOGRAPHY AND WEB LINKS / BASIC SOURCES OF INFORMATION

BOOKS				
Author/s	Year	Title	Edition	Publisher
Torres-Cueco R.	2008	La Columna Cervical: Evaluación Clínica y Aproximaciones Terapéuticas	Madrid	Médica Panamericana
Torres-Cueco R.	2008	La Columna Cervical: Síndromes Clínicos y su Tratamiento Manipulativo	Madrid	Médica Panamericana

Petty, NJ.	2001	Neuromusculoskeletal Examination and Assessment: A Handbook for Therapists		Churchill Livingstone
Bogduk, N.	2005	Clinical Anatomy of the Lumbar Spine And Sacrum	4th	Elsevier
Dutton M.	2002	Manual Therapy of the Spine: an integrated approach		Mc Graw Hill
Jone, MA, Rivett DA	2004	Clinical reasoning for manual therapists		Butterworth Heinemann
Cleland J.	2006	Netter's Orthopaedic Clinical Examination An Evidence-based Approach		Elsevier
Beeton KS	2003	Manual Therapy Masterclasses: the vertebral column		Elsevier
Bogduk N, McGuirl, B.	2006	Management of acute and chronic neck pain: an evidence based approach		Elsevier
Boyling JD, Jull GA.	2004	Modern Manual Therapy: The Vertebral Column	3rd	Elsevier
Adams M, Burton K , Bogduk N, Dolan P.		The Biomechanics of Back Pain	2nd	Churchill Livingstone
Vleeming A, Mooney V, Stoeckart	2007	Movement, Stability & Lumbopelvic Pain: Integration of Research and Therapy	2nd	Elsevier
Lee, D.	2011	Pelvic Girdle: An integration of clinical expertise and research	4th	Elsevier
American Osteopathic Association.	2006	Foundations of Osteopathic Medicine		Lippincott Williams & Wilkins
Amigues JP.	2005	Compendio de osteopatía. Teoría y práctica	1st	McGraw-Hill/Interamericana
Bienfait M.	2006	Bases fisiológicas de la terapia manual y la osteopatía		Elsevier
Cailliet R,	2006	Anatomía funcional biomecánica		Marban
Cailliet R.	1994	Incapacidad y dolor en tejidos blandos	Mexico	El Manual Moderno
Calais, B.	1988	Anatomía para el movimiento		Saint-Etienne, impressions Dumas
Chaitow L.	2001	Palpation skills : assessment and diagnosis through touch		Churchill Livingstone
Clem W. Thompson, R. T. Floyd	1998	Manual of Structural Kinesiology		Elsevier
Cloet E, Ranson G, Schallier F.	2000	La osteopatía práctica		Elsevier
Coux de G, Curtil P.	2002	Tratado de osteopatía estructural		Elsevier
Dvorack J. Dvorack V.	1989	Medicina manual – Diagnostico	Barcelona	Scriba
Dvorack J. Dvorack V.	1989	Medicina manual – Terapéutica	Barcelona	Scriba
Derek Field	2004	Anatomy : palpation and surface markings		Elsevier
Fryette HH	1993	Principes de la technique osteopathique	1st	Frison-Roche
Gibbons P	2002	Manipulación de la columna, el torax y la pelvis		Interamericana
Greenman PE	2005	Principles and Practices of Hands on Medicine	3rd	Médica Panamericana
Hoppenfeld Stanley	1976	Physical examination of the spine and extremities	New York	Prentice Hall
Joshua Cleland	2006	Netter's Orthopaedic Clinical Examination An Evidence-based Approach.		Elsevier
Kaltenborn FM	2004	Fisioterapia manual en columna.	Madrid 2nd	Mc Graw Hill Interamericana
Kapandji IA	2007	The physiology of the joints. Volume 3: the trunk and vertebral	6th	Churchill Livingstone

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		column		
Kendall F	2005	Muscles testing and function	Barcelona 2nd	Lippincott, Williams & Wilkins
Korr IM	2004	The Physiological Basis Of Osteopathic Medicine		Insight Publishing
Le Corre F., Rageot E.	1995	Manipulaciones vertebrales	Barcelona 2nd	Elsevier
Maitland, G.D.	2006	Maitland's Vertebral manipulation	8th	Churchill Livingstone
Nigel Palastanga, Derek Field, Roger Soames	2000	Anatomy and human movement: structure and function		Elsevier
Parsons J.	2007	Osteopathy : models for diagnosis, treatment and practice		Churchill Livingstone
Ricard F.	2007	Tratamiento Osteopático de las Algias del Raquis Torácico		Panamericana
Ricard F.	2005	Tratamiento Osteopático de las Algias Lumbopélvicas	Madrid 3rd	Panamericana
Ricard F, Salle J.	2003	Tratado de Osteopatía		Panamericana
Kendall FP	2005	Muscles: testing and function with posture and pain	4th	Marban
Tixa, Serge.	2006	Atlas de anatomia palpatoria. cuello tronco y miembro superior. Tomo 1	1st	Elsevier

## 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 6	<b>RESEARCH METHODOLOGY AND CLINICAL STUDIES DESIGN</b>		
Code	<b>43116</b>	Academic year	<b>2020-21</b>
ECTS credits	<b>9</b>	Module type	<b>Compulsory</b>
Year	<b>1</b>	Term	<b>Annual</b>
Timetable	Available to students enrolled on this module via the virtual campus		
Teaching language	<b>Spanish</b>		

### FACULTY DATA

- Module leader

Professor's Name	<b>JORDI ESQUIROL CAUSSA</b>
Email	<b>jorge.esquirol@eug.es</b>
Tutorial Schedule	<b>To be Arranged</b>

- Other faculty data

Professor's Name	<b>VANESSA BAYO TALLÓN</b>
Email	<b>vanesa.bayo@eug.es</b>
Tutorial Schedule	<b>To be Arranged</b>

Professor's Name	<b>MAIDER SÁNCHEZ PADILLA</b>
Email	<b>maider.sanchez@eug.es</b>
Tutorial Schedule	<b>To be Arranged</b>

Professor's Name	<b>NOELIA SERRANO DOMINGUEZ</b>
Email	<b>noelia.serrano@eug.es</b>
Tutorial Schedule	<b>To be Arranged</b>

Professor's Name	<b>YOLANDA SÁNCHEZ RETAMERO</b>
Email	<b>yolanda.sanchez@eug.es</b>
Tutorial Schedule	<b>To be Arranged</b>

Professor's Name	<b>ISHAR DALMAU I SANTAMARIA</b>
Email	<b>ishar.dalmau@eug.es</b>
Tutorial Schedule	<b>To be Arranged</b>

Professor's Name	<b>ALBERT FELIU SOLER</b>
Email	<b>albert.feliu@eug.es</b>
Tutorial Schedule	<b>To be Arranged</b>

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Professor's Name	<b>GEMMA PAMPALONA EXPOSITO</b>
Email	<b>gemma.pampalona@eug.es</b>
Tutorial Schedule	<b>To be Arranged</b>

## PREREQUISITES

- There are no official prerequisites


## MODULE CONTEXTUALIZATION

The Research Methodology And Clinical Studies Design module consists in the learning and updating of current clinical research concepts and the acquisition of knowledge in the design of scientific studies in the field of Health Sciences (osteopathy). The module includes training in the scientific methods used in the approach to clinical studies, drawing from the advanced analysis of existing scientific evidence, the forming of conclusions, the writing and presentation of conclusions in the form of bibliographic research.

## COMPETENCIES AND LEARNING OUTCOMES

### Specific Competencies

<b>Competency</b>	E01. Demonstrate knowledge of the sciences, models, techniques and instruments upon which osteopathy is based and developed
Learning outcomes	E01.01 Identify research models, techniques and instruments, as well as the different types of scientific clinical studies applicable to osteopathy.
<b>Competency</b>	E02. Evaluate the patient/person from an osteopathy point of view with the aim of determining the appropriateness of intervention within the framework of osteopathy
Learning outcomes	E02.01 Identify the patients/people who meet the inclusion and exclusion criteria for participation in clinical research.
<b>Competency</b>	E04. Design an osteopathic intervention plan adjusted to the clinic and the needs of the patient/person.
Learning outcomes	E04.01. Detail the most commonly used methods and/or techniques in scientific evidence.
<b>Competency</b>	E08. Apply scientific research methodology, as well as the intervention or the acquisition of the practice based on evidence from professional culture.

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Learning outcomes	E08.01 Define, elaborate and present a literature review on a topic in osteopathy.
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### General/Transversal Competencies

<b>Competency</b>	GT01. Analyse, synthesise and make decisions in a given clinical situation.
Learning outcomes	GT01.01. Produce a complete bibliographic research report.

<b>Competency</b>	GT02. Individually and collectively solve problems and adapt to the new situations that arise in professional practice.
Learning outcomes	GT02.01 Analyse how problems raised by research work and scientific studies in osteopathy are managed.

<b>Competency</b>	GT03. Identify and use the quality assurance principles for professional practice.
Learning outcomes	GT03.01 Assess the quality of published scientific evidence.

### Basic Competencies

<b>Competency</b>	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.
<b>Competency</b>	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
<b>Competency</b>	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
<b>Competency</b>	CB10. Students should possess the learning skills that enable them to continue studying in a manner that is largely self-guided or autonomous.

## CONTENTS

The programme consists of theoretical and practical activities that are carried out individually or in small groups in order to apply acquired knowledge and to produce a bibliographic research report to present at the end of the course.

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## TEACHING METHODOLOGY AND FORMATIVE ACTIVITIES

Theory lessons  
 Practical lessons  
 Follow-up tutorials  
 Resolution of questions and concerns by email  
 Individual and small group work (up to 3 people)

TYPE OF ACTIVITY	ACTIVITY	LEARNING OUTCOMES	HOURS OF STUDENT DEDICATION
Directed activities	Theoretical-practical presentations with ICT support	E01.01, E02.01, E04.01, E08.01, GT01.01, GT02.01, GT03.01, GT03.02, GT04.02	69
	Practical presentations		
Supervised activities	Follow-up tutorials	E01.01, E02.01, E04.01, E08.01, GT01.01, GT02.01, GT03.01, GT03.02, GT04.02	34
	Practical activities of the students in the Virtual Campus and group work		
Self-directed activities	Gathering and processing information	E02.01, E03.01, E04.01, GT01.01	122
	Autonomous work		
<b>TOTAL HOURS</b>			<b>225</b>

## ASSESSMENT

ASSESSMENT ACTIVITIES	PERCENTAGE OF THE FINAL MARK	LEARNING OUTCOMES	HOURS OF STUDENT DEDICATION
Assessment of the Bibliographic Research Report	50%	E01.01, E02.01, E04, E04.01, E08.01, GT01.01, GT02.01, GT03.01, GT03.02, GT04.02	-
Assessment of the summary poster	30%	E01.01, E02.01, E04, E04.01, E08.01, GT01.01, GT02.01, GT03.01, GT03.02, GT04.02	-
Assessment of mid-term work and the student's attitude	20%		
<b>TOTAL HOURS</b>			<b>-</b>

Production of a complete bibliographic research report, including analysis of the most recently published scientific evidence and the production of a poster summarising the report.

The assessment will be carried out by module staff and based on the "Format 5" template.

- Assessment of the bibliographic research report (50%)
- Assessment of the summary poster (30%)
- Assessment of mid-term tasks, overall impression and the student's attitude (20%)

The overall mark will be calculated using the "Format 5" template.

In order to pass the module, the following conditions must be met:

Achieve a minimum mark of "pass" or equivalent in the assessment of the bibliographic research report and summary poster.

1<sup>st</sup> term final assessment examination period from 27/01/2021 to 03/02/2021.

1<sup>st</sup> term final assessment resits from 04/02/2020 to 11/02/2020.

2<sup>nd</sup> term final assessment examination period from 09/06/2021 to 16/06/2021.

2<sup>nd</sup> term final assessment resits from 17/06/2021 to 24/06/2021.

Remark procedure: consult the center's assessment policy.

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

Format 5:



CURSO ACADÉMICO: 2019-2020

TITULACIÓN		
<input type="checkbox"/> Grau en Fisioteràpia	<input type="checkbox"/> Postgrado .....	
<input type="checkbox"/>	<input checked="" type="checkbox"/> Màster Universitari en Osteopàtia, primer curso	
Estudiante:		
Título del Trabajo:		
Tutor:		Fecha de entrega
Valoración de contenidos ( puntuar de 0 a 10 cada ítem)	Comentarios	Nota (0-10)
<b>INVESTIGACIÓN BIBLIOGRÁFICA</b>		
Título (debe ser concreto, preciso, conciso e informativo)		
Índice (debe presentar todos los epígrafes sin errores en la paginación)		
Resumen en catalán/castellano e inglés (estructurado, completo, 150-250 palabras)		
Palabras clave (siguiendo términos <b>DeCS</b> y <b>MeSH</b> , representativas del tema)		
Introducción		
Objetivos		
Materia y Métodos		
Resultados: análisis teórico de la bibliografía		
Discusión de los resultados		
Síntesis de la información científica y conclusiones		
<b>ANEXOS:</b>		
Gráficos, Tablas e ilustraciones		
Fichas de contenido		
Bibliografía (número de referencias, idoneidad y formato)		
Extensión (máximo 20 páginas + Anexos + Bibliografía + Fichas de contenido)		
Utilización de la plantilla del TFM y seguimiento de las instrucciones		
MEDIA INFORME (50%)		
<b>PÓSTER:</b>		
Objetivos, Materia y Métodos		
Resultados, Discusión y Conclusiones		
Bibliografía		
Aspecto visual		
MEDIA PÓSTER (30%)		
<b>PARCIALES:</b>	<b>FORMATO 3:</b>	<b>FICHAS DE CONTENIDO</b>
	→ → →	MEDIA:
<b>IMPRESIÓN GENERAL</b> del informe y utilización del lenguaje científico		
<b>ACTITUD INDIVIDUAL</b> del alumno		
MEDIA (20%)		
<b>NOTA TOTAL INDIVIDUAL</b> (Informe*0.5 + póster*0.3 + otras*0.2)		

Coordinador de la asignatura

Fecha:

Coordinador del máster


Fecha:

## BIBLIOGRAPHY AND WEB LINKS / BASIC SOURCES OF INFORMATION

Books					
Author/s	Year	Title	Edition	Place	Publisher
Hulley SB, Cummings S.	2013	Designing Clinical Research		Philadelphia	Lippincott Williams & Wilkins
Laporte JR.	1993	Principios básicos de investigación clínica		Madrid	Zéneca
Desantes-Guanter JM, López Yepes J. Teoría y técnica de la investigación científica	1996			Madrid	Síntesis
Departamento de Medicina y Psiquiatría (Universidad de Alicante).	1995	Tratado de epidemiología clínica.		Madrid	Du Phont Pharma
Rebagliato M, Ruiz I, Arranz M.	1996	Metodología de la investigación en epidemiología		Barcelona	Díaz de Santos
Bakke OM, Carné X, García Alonso F.	1994	Ensayos clínicos con medicamentos		Barcelona	Doyma
Ahlbom A, Norell S.	1992	Fundamentos de epidemiología.	3rd	Madrid	Siglo Veintiuno
Álvarez Cáceres R. Madrid,	1995	El método científico en las ciencias de la salud.		Madrid	Díaz de Santos
Matthews DE, Farewell VT.	2015	Using and Understanding Medical Statistics	5th	Basel	Karger
Sánchez Aldegue J, Frutos Martínez, F.	2000	Aspetos generales de la investigación para médicos de residencias.			Edimsa
Terrada M.L., Peris R.	1989	Lecciones de Documentación Médica.	2nd	Valencia	Instituto de Estudios Documentales e Históricos sobre la Ciencia
Brezinski	1991	El oficio de investigador.		Mexico	Siglo XXI
Carreras Panchón A.	1994	Guía práctica para la elaboración de un trabajo científico.		Bilbao	Publicaciones y Documentación Cita DL
López Yepes J.	1995	La aventura de la investigación científica.		Madrid	Síntesis

Articles						
Author	Title	Journal	Volume	Year	Pages	Description Comment
Cabezali Sánchez JM, Sánchez Aldegue J.	El cuestionario: bases metodológicas y su utilización en Fisioterapia, para lograr una mayor calidad asistencial.	Fisioterapia	19(2)	1997	97-103.	

Others			
Autos	Title	Place	Publisher
Esquirol Causa J, Herrero Vila E, Sánchez Aldegue J.	Metodologia i Estadística per a professionals de la salut. I. Conceptes bàsics de metodologia científica.	Escola Universitària d'Infermeria i de Fisioteràpia Gimbernat. Escola Universitària de Fisioteràpia. Trivium 4	Servei de Publicacions Universitat Autònoma de Barcelona. Bellaterra, 2012.

 <p>escoles universitàries gimbernat i Tomàs Cerdà</p> <p>ADSCRITA A LA UPMB</p>	<b>MASTER'S DEGREE IN OSTEOPATHY</b> <b>COURSE GUIDE</b>	<b>EUIF GIMBERNAT</b> Physiotherapy
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Esquirol Causa J, Herrero Vila E, Sánchez Aldeguer J.	Metodologia i Estadística per a professionals de la salut. II. Bases de l'estadística i del disseny d'estudis científics. Escola Universitària d'Infermeria i de Fisioteràpia Gimbernat.	Escola Universitària de Fisioteràpia. Trivium 5.	Servei de Publicacions Universitat Autònoma de Barcelona. Bellaterra, 2012.
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## MODULE TIMETABLE

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