

**COURSE DATA****Data Subject**

Code	34339
Name	Orthopodiatry I
Cycle	Grade
ECTS Credits	6.0
Academic year	2021 - 2022

Study (s)

Degree	Center	Acad. year	Period
1208 - Degree in Podiatry	Faculty of Nursing and Chiropody	2	First term

Subject-matter

Degree	Subject-matter	Character
1208 - Degree in Podiatry	12 - Orthopodiatry	Obligatory

Coordination

Name	Department
CAMPOS CAMPOS, JUAN	125 - Nursing
IZQUIERDO RENAÚ, MARTA	125 - Nursing
LEYDA PINEDA, ROSA MARIA	125 - Nursing

SUMMARY

MODULE 3. SUBJECT: PODIATRIC PATHOLOGY, PHYSICAL AND PHARMACOLOGICAL ORTOPODOLÓGICOS TREATMENTS.

MODULE 3 provides knowledge: pathological processes of structure function and impact of the foot at the locomotor apparatus. Knowledge and development of scanning techniques to make a diagnosis, prognosis and to design a treatment plan ortopodológico. Knowledge of instruments, equipment and machinery used for the preparation and implementation of treatment ortopodológicos: requirements, design, production and application. Chiropodist's study of shoes and comprehensive changes to chiropodists associated with sports. Application of physical methods, electric and manual. taping and treatment of pain and inflammation



PREVIOUS KNOWLEDGE

Relationship to other subjects of the same degree

There are no specified enrollment restrictions with other subjects of the curriculum.

Other requirements

*ORTOPODOLOGÍA I, II AND III, compulsory taught in 1 st and 2 n semester of 2nd year and 1 semester of 3rd year.

RECOMMENDATIONS: have acquired the skills of raw materials: human anatomy, biochemistry and biophysics and pathology general.

OUTCOMES

1208 - Degree in Podiatry

- Know and implement the exploration techniques to give a diagnosis and prognosis, and to design the orthopodologic treatment plan of the lower limb pathology. Bone, ligament and muscle injuries. Pathology of the forefoot and hindfoot. Congenital deformities. Neurological damage. Amputations. Asymmetries.
- Develop the skill and dexterity in the use of instruments, equipment and machinery used for the preparation and implementation of orthosis treatments. General concept of orthopedics. The orthosis workshop. Orthosis therapeutic materials technology. Fundamentals and techniques for foot-leg casts.
- Design, procure and implement plantar supports, digital orthoses, prosthesis and splints using different techniques and materials. Plantar and digital orthotics. Study of footwear and shoe therapy. Prescription of lower extremity orthopedic treatments.

LEARNING OUTCOMES

Get the capacity, ability and skill necessary to diagnose, prescribe, specify, implement and / or develop and evaluate any type of podiatry treatment, ortopodológico, quiropodológico surgery, podiatry, physical, pharmacological, preventive and / or education, based on clinical history. acting at all times based on compliance with professional ethical obligations, the law and the criteria norm praxis.

DESCRIPTION OF CONTENTS



1. INTRODUCTION TO ORTOPODOLOGÍA (T. 01)

ITEM 01: HISTORY OF ORTOPODOLOGÍA. DEFINITION OF ORTHOPEDICS. ORTOPODOLOGÍA DEFINITION. INTRODUCTION TO THE SUBJECT. RELACIÓNDE SUBJECT WITH OTHER SUBJECTS OF THE CURRICULUM BASE.

UNIT 02: CLASSIFICATION OF TYPES OF ORTOPODOLOGÍA. PALLIATIVE ORTOPODOLOGÍA, COMPENSATORY, CORRECTIVE AND REPLACEMENT. DEFINITION, CHARACTERISTICS AND RECOMMENDED.

ITEM 03: PROVISIONAL AND DEFINITIVE TREATMENT ORTOPODOLOGICOS. APPLICATION GUIDELINES AND INSTRUCTIONS FOR USE.

ITEM 04: DEFINITION OF ORTHOTICS AND PROSTHETICS. TYPES, CHARACTERISTICS AND CRITERIA FOR APPLICATION.

2.

3. ORGANIZATION OF THE WORKSHOP ORTOPODOLOGIA. (T 03)

ITEM 03: DESCRIPTION OF THE WORKSHOP ORTOPODOLOGÍA. FEATURES TO CONVEINE THE WORKSHOP. PROVISION OF FURNITURE AND EQUIPMENT ERGONOMICS. HYGIENE AND SAFETY. RULES OF THE MACHINERY USO.DESCRIPCIÓN OWN WORKSHOP ORTOPODOLOGÍA. USE, HEALTH AND SAFETY STANDARDS AND MAINTENANCE.

4.

5. TECHNICAL MOULDING AND REPRODUCTION OF THE FOOT.(T 05)

ITEM 05 A: DESCRIPTION AND CHARACTERISTICS OF THE ROOM MOLDES.DESCRIPCIÓN ERGONOMIC COMPONENTS. MAINTENANCE.

ITEM 0B: DESCRIPTION AND CHARACTERISTICS OF THE MATERIALS USED IN THE PREPARATION OF MOULDS. INSTRUMENTS USED IN THE PREPARATION OF MOULDS. DESCRIPTION AND METHOD OF USE.

ITEM 05C: DEFINITION OF MOLD. INDICATIONS. TYPES. POSITIVE AND NEGATIVE MOULD MOLD OR DRAIN. CLASSIFICATION OF MOLD BY SEGMENT FOOT PLAY. PRINT METHODOLOGY FOR OBTAINING THE NEGATIVE. CAST THE FIRST SEGMENT, HEEL, FOREFOOT AND BOOTS. GETTING POSITIVE MOLD.

ITEM 05 D: METHOD OF OBTAINING PLANT MOLD. GETTING IN LOAD AND DISCHARGE SEMI-



CHARGED. NEUTRALIZATION TECHNIQUES. NEUTRALITY ASSESSMENT OF MOLD.

6. ITEM 05C: DEFINITION OF MOLD. INDICATIONS. TYPES. POSITIVE AND NEGATIVE MOULD

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7.

8.

ITEM 08: DEFINITION OF MOLD. INDICATIONS. TYPES.

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9.

10.

11. DESCRIPTIVE STUDY OF SHOES (T. 11-12-13)

ITEM 11: HISTORICAL EVOLUTION OF SHOES. GENERAL ANATOMY OF THE SHOE. TAKING ACTION. HORM. FEATURES OF THE LAST. VARIETY IN THE MANUFACTURE OF SHOES. MATERIALS.

ITEM 12: CHILDREN'S SHOES. FEATURES. GENERAL DESIGN RECOMMENDATIONS. BASIC CONCEPTS FOR CHOOSING THE RIGHT SHOE IN CHILDREN.

ITEM 13: SPORTS SHOES. CHARACTERISTICS BY SPORT ACTIVITY TO BE DEVELOPED. SPORTS FOOTWEAR: BASKETBALL, TENNIS, SOCCER, ATHLETICS AND URBAN RACE.



12. THERAPY OF SHOES (T 14-15-16-17-18)

ITEM 14: DEFINITION OF THERAPY OF SHOES. FEATURES THAT YOU HAVE TO HAVE THE IDEAL FOOTWEAR ELEMENTS FOR THE APPLICATION OF ORTHOTICS. DESCRIPTION AND ACTION ITEMS ORTHESIST BIOMECHANICS APPLIED TO FOOTWEAR.

ITEM 15: DESIGN AND METHOD OF APPLICATION OF THE ELEMENTS ORTHOSIS FOOTWEAR. BIOMECHANICAL EFFECT. MATERIALS.

ITEM 16: SPECIAL FOOTWEAR. CLASSIFICATION. ORTHOPEDIC FOOTWEAR.

ITEM 17: TECHNICAL WORK FOOTWEAR. GENERAL DESIGN RECOMMENDATIONS. TECHNICAL FEATURES IN YOUR SHOES.

ITEM 18: SUBSIDIARIES OF TREATMENT ORTOPODOLOGICO PATHOLOGY. IN YOUR SHOES. DISSYMMETRY. PES VALGUS. VARO PIE. EQUINUS.

13. PATTERN DESIGN.(I-II)

THE STANDARD BASE. DEFINITION. BENCHMARKS FOR YOUR COLLECTION. METHODOLOGY OF CLOTHING ON FOOT, CAST OR PEDÍGRAFÍA. MATERIAL CHANGES IN FUNCTION AND SHOE. BENCHMARKS FOR PERFORMANCE, MAKING METHODOLOGY.

14. PRACTICE (N° 1-2-3-4-5-6--7-8-9-10)(20h)

PRACTICAL CONTENT. (20 H).

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PRACTICE 1: PRESENTATION OF THE WORKSHOP ORTOPODOLOGÍA.

PRACTICE 2: PROVISIONAL ORTOPODOLÓGICOS TREATMENTS.

PRACTICE 3: LOCATION OF ANATOMICAL LANDMARKS.

PRACTICE 4: TECHNIQUES FOR OBTAINING THE FOOTPRINT.

PRACTICE 5: CAST PHENOLIC FOAM.

PRACTICE 6: NEGATIVE MOULD PLANT.

Practice 7: Mold plant, negative (adaptation and techniques of correction (I) Practice 8: Mold plant, negative (adaptation and techniques of correction II) Practice 9: Mold plant, negative (adaptation and techniques of correction III) Practice 10:Development of the different types of negative molds(with foam)

15. WORKSHOP (10 H)

WORKSHOP I:Conducting patterns (SEMINAR I)

WORKSHOP II :Conducting patterns.(SEMINAR II)

WORKSHOP III :negative Molds with foam

WORKSHOP IV :CAD/CAM SYSTEM

**WORKLOAD**

ACTIVITY	Hours	% To be attended
Theory classes	58,00	100
Laboratory practices	20,00	100
Classroom practices	10,00	100
Tutorials	2,00	100
Attendance at events and external activities	2,00	0
Development of group work	2,00	0
Development of individual work	2,00	0
Study and independent work	40,00	0
Readings supplementary material	2,00	0
Preparation of evaluation activities	2,00	0
Preparing lectures	7,00	0
Preparation of practical classes and problem	2,00	0
Resolution of case studies	1,00	0
TOTAL	150,00	

TEACHING METHODOLOGY

TO CARRY OUT THE PROCESS OF TEACHING - LEARNING COURSE USING DIFFERENT TEACHING METHODS, SEEK A BALANCE BETWEEN TRADITIONAL AND INNOVATIVE METHODS SHOULD BE ENHANCED AND METHODOLOGIES WHICH PROVIDES, BETTER CONDITIONS, TRAINING AND SKILLS OBJECTIVES OF THE COURSE . BE BASED ON THE FOLLOWING ACTIVITIES:

8.1. TEACHING METHODS (CLASSROOM) (T) 58 H:

GROUP THEORETICAL EXPLANATION OF STUDENTS ENROLLED (N), THE CONTENT OF EDUCATIONAL UNITS THROUGH EXPOSITORY SESSIONS, EXPLANATIONS AND / OR DEMONSTRATIONS BY THE PROFESSOR. THE STUDENT MAY ACCESS THE CONTENTS OF MEETINGS CLASS THROUGH THE VIRTUAL CLASSROOM IN THE MODULE "DOCUMENTS". THE PROGRAM WILL BE ESTABLISHED FOR THE GOOSE COURSE.

8.2. TEACHING METHODS (CLASSROOM PRACTICE: SEMINAR-WORKSHOP (P) 10 H:
SUPERVISED SESSIONS-GRAPHIC MONOGR SHARED WITH PARTICIPATION OF TEACHERS, STUDENTS.

8.3. TEACHING METHODS (LAB) (L) 20 H:



THE MAKING OF PRACTICE IS VITAL FOR STUDENTS ACQUIRING SKILLS AND PROCEDURES RELEVANT TO THE SUBJECT. THESE PRACTICES ARE HELD AT THE WORKSHOP LOCATED IN THE CLASSROOM B0. DISTRIBUTION OF PUPILS IN THE GROUPS WILL BE ASSIGNED TO THE CENTER OF THE SECRETARIAT AND ITS TOTAL (N / 4) BY GROUP WILL BE BETWEEN 16-24 STUDENT S. BE ASSIGNED TO RESPECT THE GROUP AND SUPPORT THESE PRACTICES WILL BE MANDATORY. L1-L2-L3-L4

8.4. TEACHING METHODS (TUTORIALS) (U) 2 H:

TUTORIALS WILL BE SET OF THREE TYPES:

- * PEER TUTORING (N / 4) BETWEEN 20 TO 25 STUDENTS: THIS IS TO MEET THE CONCERNS AND DIFFICULTIES ENCOUNTERED BY STUDENTS. PERSONAL PROJECT MONITORING OF STUDENTS AND ACADEMIC ACTIVITIES LEADING UP TO THE CLASS.
- * ONE TUTORING: PERSONAL PROJECT MONITORING OF STUDENTS AND BROADEN OR DEEPEN THE INFORMATION PROVIDED IN OTHER LEARNING SITUATIONS.
- * VIRTUAL TUTORIALS: AVAILABLE FOR ALL STUDENTS ENROLLED THROUGH THE MAIL FROM THE UNIVERSITY.

TO CARRY OUT THE PROCESS OF TEACHING - LEARNING COURSE USING DIFFERENT TEACHING METHODS, SEEK A BALANCE BETWEEN TRADITIONAL AND INNOVATIVE METHODS SHOULD BE ENHANCED AND METHODOLOGIES WHICH PROVIDES, BETTER CONDITIONS, TRAINING AND SKILLS OBJECTIVES OF THE COURSE . BE BASED ON THE FOLLOWING ACTIVITIES:

8.1. TEACHING METHODS (CLASSROOM) (T) 58 H: GROUP THEORETICAL EXPLANATION OF STUDENTS ENROLLED (N), THE CONTENT OF EDUCATIONAL UNITS THROUGH EXPOSITORY SESSIONS, EXPLANATIONS AND / OR DEMONSTRATIONS BY THE PROFESSOR. THE STUDENT MAY ACCESS THE CONTENTS OF MEETINGS CLASS THROUGH THE VIRTUAL CLASSROOM IN THE MODULE "DOCUMENTS". THE PROGRAM WILL BE ESTABLISHED FOR THE GOOSE COURSE.

8.2. TEACHING METHODS (CLASSROOM PRACTICE: SEMINAR-WORKSHOP (P) 10 H: SUPERVISED SESSIONS-GRAPHIC MONOGR SHARED WITH PARTICIPATION OF TEACHERS, STUDENTS.

8.3. TEACHING METHODS (LAB) (L) 20 H:



THE MAKING OF PRACTICE IS VITAL FOR STUDENTS ACQUIRING SKILLS AND PROCEDURES RELEVANT TO THE SUBJECT. THESE PRACTICES ARE HELD AT THE WORKSHOP LOCATED IN THE CLASSROOM B0. DISTRIBUTION OF PUPILS IN THE GROUPS WILL BE ASSIGNED TO THE CENTER OF THE SECRETARIAT AND ITS TOTAL (N / 4) BY GROUP WILL BE BETWEEN 16-24 STUDENT S. BE ASSIGNED TO RESPECT THE GROUP AND SUPPORT THESE PRACTICES WILL BE MANDATORY.

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Ø ONE TUTORING: PERSONAL PROJECT MONITORING OF STUDENTS AND BROADEN OR

DEEPEN THE INFORMATION PROVIDED IN OTHER LEARNING SITUATIONS.

Ø VIRTUAL TUTORIALS: AVAILABLE FOR ALL STUDENTS ENROLLED THROUGH THE

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EVALUATION

TECHNICAL ASS

REFERENCES

Basic

- MICHAUD TC (1997). FOOT ORTHOSES AND OTHER FORMS OF CONSERVATIVE FOOT CARE. ORTESIS PLANTARES Y OTRAS FORMAS DE TRATAMIENTO CONSERVADOR (2ª ed.) Michaud, TC, Baltimore.
- KIRBY KA. Foot and lower extremity biomechanics: A ten year collection of precision intricast newsletters. Precision Intrinsic, Inc, Payson, Arizona; 1997.
KIRBY KA. Foot and lower extremity biomechanics I: precision intricast newsletters, 1997-2002. Precision Intrinsic, Inc., Payson, Arizona; 2002.
KIRBY KA. Foot and lower extremity biomechanics II: precision intricast newsletters, 2002-2008. Precision Intrinsic, Inc, Payson, Arizona; 2009
KIRBY KA biomecanica del pie y la extremidad inferior ,volV a ARTICULOS DE REVISION INTRICAST 2011.2018 IBN .9780965730983.eD autor editor



Additional

- <http://www.ibv.org>
- <http://www.traumaweb.net>
- <http://www.eorthopod.com>
- <http://www.traumazamora.org/ortoinfantil/cavozambo/cavozambo.html>
- http://escuela.med.puc.cl/paginas/publicaciones/TextoTraumatologia/Trau_Secc02/Trau_Sec02_10.html
- <http://numancia1.vhebron.es/htr/ortopediatria/castellano/salud/lista.html>
- <http://www.ortoinfo.com/comun/enlaces/enlaces61.html>
- <http://iicop.com/casosclinicos.html>
- <https://www.mscbs.gob.es/profesionales/saludPublica/ccayes/alertasActual/nCov-China/documentos/ITCoronavirus.pdf>
- Medidas higiénicas para la prevención de contagios del COVID-19. Ministerio de Sanidad (06/04/2020) https://www.mscbs.gob.es/profesionales/saludPublica/ccayes/alertasActual/nCov-China/documentos/Medidas_higienicas_COVID-19.pdf

ADDENDUM COVID-19

This addendum will only be activated if the health situation requires so and with the prior agreement of the Governing Council

English version is not available

1. Contenidos Se mantiene lo indicado en la guía docente.
2. Volumen de trabajo y planificación temporal de la docencia Mantenimiento del peso de las distintas actividades que suman las horas de dedicación en créditos ECTS marcadas en la guía docente. Reducción del peso de unas actividades L y sustitución por otras manteniendo el volumen de trabajo quemarca la guía docente. Sesiones programadas de teoría en las mismas fechas y horas indicadas en la OCA y con la misma duración.
3. Metodología docente Subida de materiales al Aula Virtual. Propuesta de actividades por aula virtual. Problemas/ejercicios resueltos (clases prácticas / laboratorios). Vídeos grabados en el laboratorio (clases prácticas L). Las tutorías se realizarán a través del correo electrónico. Trabajo de grupo. El contenido del trabajo va a consistir en una búsqueda bibliográfica de 5 artículos relacionados con el tema elegido (1 por cada estudiante). Se usará la base de datos bibliográfica Pubmed (ver instrucciones en Aula Virtual). Se formarán grupos de 5 estudiantes, entre todo el alumnado matriculado. En los artículos se analizará su contenido y se presentará un documento de texto conjunto (de grupo) con los análisis realizados y una conclusión final de todos los artículos (se darán indicaciones a través del Aula Virtual).



4. Evaluación La evaluación constará de una prueba objetiva (de dos partes) con exámenes orales o escrito por videoconferencia con preguntas a desarrollar o de tipo test en aula virtual. La nota de corte del aprobado en la prueba objetiva se establecerá a partir de 3,75 puntos, en cada una de las partes de la prueba objetiva. La nota obtenida en cada una de las partes de la prueba objetiva se mantendrá para la 2ª convocatoria. Evaluación de las competencias prácticas En concreto en el apartado de evaluación del 40% (4 puntos) que se asignaba al material elaborado en las prácticas (L) y el examen práctico, se plantea la realización de un trabajo de búsqueda bibliográfica de los temas anexos (ver Aula Virtual). Para la evaluación de las competencias prácticas en la 2ª convocatoria se plantará la realización de un trabajo de búsqueda bibliográfica de los temas anexos (se publicarán en el Aula Virtual).

5. Bibliografía Se mantiene la bibliografía indicada en la guía docente.