

**COURSE DATA****DATA SUBJECT**

Code: 34351
Name: Podiatric surgery I
Cycle: Undergraduate Studies
ECTS Credits: 6
Academic year: 2025-26

STUDY (S)

Degree	Center	Acad. year	Period
1208 - Degree in Podiatry	Facultat d'Infermeria i Podologia	2	Second quarter

SUBJECT-MATTER

Degree	Subject-matter	Character
1208 - Degree in Podiatry	Podiatric surgery	COMPULSORY

COORDINATION

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SUMMARY

The subject of Podiatric Surgery I (code 34351) comprehensively addresses the theoretical, practical and legal aspects that students of the Degree in Podiatry at the University of Valencia must know in order to optimally carry out surgical clinical procedures. For this reason, within the framework of this subject, training strategies will be implemented that aim to address core issues such as: the legal documents involved in surgical practice, pre-surgical protocols, foot anesthesia techniques, post-surgical protocols and possible complications, as well as knowledge of surgical techniques on the nail apparatus, surgery of the soft tissues of the foot, infiltration techniques. The subject of Podiatric Surgery I is located in the module of Podiatric Surgery, which consists of 12 ECTS credits, of which 6 credits belong to the subject of Podiatric Surgery I. This is taught in the second year of the Degree in Podiatry, specifically during the second semester.

PREVIOUS KNOWLEDGE**RELATIONSHIP TO OTHER SUBJECTS OF THE SAME DEGREE**

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

OTHER REQUIREMENTS



Relationship with other subjects in the same degree: No enrollment restrictions have been specified for other subjects in the curriculum.

Other requirements

Given its compulsory nature, only the requirements necessary for initial admission to the Degree in Podiatry are specified.

Considering the field of podiatric surgery, contact networks are established with the following subjects: Anatomy, Pathological Anatomy, Dermatology, Podiatric Pathology, and very closely with Chiropody. It is recommended that students have some knowledge of the metalanguage of podiatric surgery.

COMPETENCES / LEARNING OUTCOMES

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Gain skills in the application of podiatric techniques of nail surgery, podiatric soft tissue surgery and foot bone and joint surgery.

Know and apply technical procedures and skills in podiatric surgery. Know and diagnose foot pathology with surgical indication.

Know and apply the specific pharmacology for podiatric use. Know pre- and post-surgical pharmacology, the types of anesthesia in podiatry and application techniques.

Know and use the clinical history, assess and apply the preoperative protocol and informed consent.

Know and use the instruments used in surgery and chiropodology, the methods of sterilisation and the taking of samples for cultures.

Know and use the techniques of exploration, diagnosis and treatment of the tumours in the foot. Know and know how to treat the complications and side effects derived from the application of podiatric and chiropodological surgery techniques.

DESCRIPTION OF CONTENTS

1. INTRODUCTION

Topic 1: Podiatric surgery: concept, definition, and current context. Working methodology, bibliographic sources, and evaluation criteria

2. INTRODUCTION TO PODIATRIC SURGERY I

(TOPICS 2-3-4-5-6-7-8-9-10-11)

Topic 2: Surgical clinical history. Additional tests. Surgical clinical documentation. Informed consent.

Topic 3: Preparation of the surgical field. Surgical handwashing. Management and adaptation of surgical attire.

Topic 4: Patient selection criteria and ASA classification. Precautions and contraindications in podiatric surgery.

Topic 5: Introduction to the preoperative period. Preoperative surgical evaluation. Laboratory tests, normal values, sequence of orders, interpretation of variations.

Topic 6: Surgical vascular testing: Oscillometry, Doppler index, application techniques, interpretation of



results.

Topic 7: Pharmacological therapy in podiatric surgery: Preoperative pharmacological treatment. Postoperative pharmacological treatment. Antibiotic prophylaxis in surgery. Thromboembolic prophylaxis in podiatric surgery. Risk factors, indications.

Topic 8: Intraoperative complications in podiatric surgery. Vagal syncope. Bleeding. Drug toxicity, allergic reactions, and anaphylaxis.

Topic 9: Postoperative complications. Surgical hemostasis. Tourniquet injury. Topic 10: Sutures and drains. Concept. Qualities of an ideal suture. Classification according to origin, structure, and permanence in the body.

Topic 11: Suture material. Characteristics of threads and needles. Types, characteristics, indications, contraindications, techniques, and complications of sutures used in podiatry.

3. LOCAL ANESTHESIA IN PODOLOGY (TOPIC 12-13-14)

Topic 12: Local anesthetics for podiatric use. Types of blockages in podiatry by anatomical location.

Topic 13: Application techniques, indications, and complications.

Topic 14: Punctures and infiltrations. Concept, indications, and complications.

4. NAIL SURGERY (TOPIC 15-16-17-18-19-20-21-22)

Topic 15: Introduction to nail surgical techniques. Classification of nail surgical procedures.

Topic 16: Actions on soft tissue and nail plasties. Definition, indications, surgical techniques, and complications.

Topic 17: Nail plate ablation techniques. Definition, indications, surgical techniques, and complications.

Topic 18: Partial matricectomies with nail involvement. Definition, indications, surgical techniques, and complications.

Topic 19: Partial matricectomies with nail and soft tissue involvement. Definition, indications, surgical techniques, and complications.

Topic 20: Chemical matricectomies. Definition, indications, surgical techniques, and complications.

Topic 21: Total matricectomies. Definition, indications, surgical techniques, and complications.

Topic 22: Total matricectomies of the nail unit: Mini-Kaplan procedure in minor toes. Syme procedure in minor toes.

5. UNIT 5: SOFT TISSUE SURGERY (TOPICS 23-24-25-26-27-28-29)

Topic 23: Introduction to soft tissue surgery

Topic 24: Biopsies. Definition, indications, surgical techniques, and complications. Biopsy performance methodology, clinical report, and processing.

Topic 25: Periungual tumors. Periarticular tumors. Nail bed tumors. Definition, indications, surgical techniques, and complications.

Topic 26: Connective tissue tumors. Tendon tissue tumors. Definition, indications, surgical techniques, and complications.

Topic 27: Warts. Definition, indications, surgical techniques, and complications.

Topic 28: Cryosurgery. Electrosurgery: types, applications, and clinical indications, risks, and complications.

Topic 29: Malignant tumors. Clinical identification

6. Practical classes

- Pre-surgical protocol: Surgical hygiene - Surgical protocol: Surgical instruments. Local anesthesia - Surgical maneuvers: incision, dissection, hemostasis, sutures

7. Classroom practical classes P

P (1) Clinical surgical documentation

P (2) Introduction to research in podiatric surgery

P (1) Clinical surgical documentation: report preparation, consent. Objectives: To understand and prepare all the surgical documentation necessary to perform a surgical procedure. Methodology: To prepare the different surgical documents individually in the classroom according to regulations and legal framework, and then to hold a discussion about them. Evaluation: submission of the completed documents and level of



participation in the session.

P (2) Introduction to research in podiatric surgery

Introduction to research in podiatric surgery

Analyze a clinical research study related to one of the surgical techniques in foot surgery to identify the parameters to be investigated. Objectives: To analyze a clinical research study related to one of the surgical techniques in foot surgery to identify the parameters to be investigated. Objectives: To understand the basic elements of research design. Methodology: Literature search in specialized health sciences databases and analysis of the methodological design content of the references found. Assessment: Submission of completed documents and level of participation in the session.

WORKLOAD

PRESENCIAL ACTIVITIES

Activity	Hours
Tutorials	2,00
Theory	62,00
Laboratory	20,00
Classroom practices	6,00
Total hours	90,00

NON PRESENCIAL ACTIVITIES

Activity	Hours
Attendance at other activities	10,00
Individual or group project	13,00
Independent study and work	22,00
Preparation of lessons	5,00
Preparation for assessment activities	10,00
Resolution of case studies	0,00
Total hours	60,00

TEACHING METHODOLOGY

Sixty hours of class time will be devoted to developing the theoretical content of the course. These classes will be taught using a lecture method supported by audiovisual material. For the practical portion of the program, please see the corresponding section in the Contents section.

EVALUATION

Theoretical Content The assessment of the theoretical content will be equivalent to 60% of the total grade for the subject. The theoretical part of the subject will be assessed through a multiple-choice test, with 50 multiple-choice questions and 3 answer options. Each incorrectly answered question will subtract half of a correct answer. The test will be held in a classroom at the center where the exam is held. To be eligible for this assessment, the student must have obtained a grade of PASS in the practicals. The minimum grade to pass this assessment is 5 points. **Practical Content:** The practicals contribute 40% of the final grade;



classroom practicals (P) contribute up to 10%; long practicals contribute up to 30%. This last 30% will be assessed through the practical exam that will take place at the end of the long practicals, where students will demonstrate the practical skills they have acquired.

Aspects to take into account: If a student fails any of the parts of the subject (theoretical or practical), the following will be reflected in the transcript: The result of the theoretical exam, once the practical part has been passed. The result of the practical part, if the practical part has not been passed. In the second sitting, students who have not taken or who have not passed the practical part, through continuous assessment, will make up for it by taking a practical test, the content of which will be included in the practical program for the subject. The test will be given in the practical classroom after the second sitting theoretical exam.
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REFERENCES

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- Baran, R; Baran and Dawber; s diseases of the nails and their management; 3^a ed; Oxford: Blackwell Science, 2001.
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- Izquierdo Cases J O. Podología quirúrgica, Barcelona: Masson, 2006.
- Kirk RM. Técnicas quirúrgicas básicas. Ed Elsevier.2003 Madrid 2003.
- Martínez Nova, Alfonso. Podología: atlas de cirugía ungueal. Ed. Medica Panamericana, Madrid 2006.



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