

## DATOS GENERALES

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| <b>Curso académico</b>         | Curso 2024/2025  |
| <b>Tipo de curso</b>           | Máster de Formación Permanente   |
| <b>Número de créditos</b>      | 60,00 Créditos ECTS  |
| <b>Matrícula</b>               | 6.000 euros (importe precio público)   |
| <b>Requisitos de acceso</b>    | <p>The master's degree is aimed at doctors or dentists interested in obtaining specialised training in implantology and oral surgery. The student will receive the title of Master of Continuing Education in Implantology and Oral Surgery from the University of Valencia, guaranteeing advanced training aimed at specialisation and, above all, in the professional field.</p> <p>The qualification awarded by the University of Valencia meets the requirements commonly demanded by job exchanges, competitive examinations and professional career assessment committees.</p> <p>*Admitted students who undertake clinical practice must be covered by Professional Civil Liability Insurance for the duration of the degree.</p> |
| <b>Modalidad</b>               | Semipresencial   |
| <b>Lugar de impartición</b>    | Online Theory + Face-to-Face Clinical Practice   |
| <b>Horario</b>                 | Free choice of the student   |
| <b>Dirección</b>               |  |
| <b>Organizador</b>             | Departament d'Estomatologia  |
| <b>Dirección</b>               | <p>José Miguel Peñarrocha Diago<br/>         Presidente de la Sociedad Española de Cirugía Bucal. Doctor en Medicina y Cirugía. Especialista en Estomatología y en Neurología. Catedrático de Cirugía Bucal. Universitat de València.</p> <p>María Peñarrocha Diago<br/>         Doctora en Medicina y Cirugía. Doctora en Odontología. Máster en Cirugía e Implantología Oral. Profesora Titular de Cirugía Bucal.. Departament d'Estomatologia. Universitat de València.</p>   |
| <b>Plazos</b>                  |  |
| <b>Preinscripción al curso</b> | Hasta 02/09/24   |
| <b>Fecha inicio</b>            | Septiembre 24  |
| <b>Fecha fin</b>               | Junio 25   |
| <b>Más información</b>         |  |
| <b>Teléfono</b>                | 961 603 000  |
| <b>Web específica</b>          | <a href="https://www.uv.es/fundacion-lluis-alcanyis/es/formacion/portal-formacion/portal-formacion.html">https://www.uv.es/fundacion-lluis-alcanyis/es/formacion/portal-formacion/portal-formacion.html</a>  |
| <b>E-mail</b>                  | <a href="mailto:informacion@adeituv.es">informacion@adeituv.es</a>   |

## PROGRAMA

## Oral Surgery

Module 1. Introduction to Oral Surgery. Radiology. Instruments and equipment. Surgical act.

Unit 1.1.- Introduction to Oral Surgery.

- Clinical history and complementary tests Parts I and II.
- Documentation and informed consents.
- Sterility and surgical field set-up.
- Sterility and set-up of the surgical field

Unit 1.2.- Radiology

- Radiology in oral surgery: periapical radiographs, orthopantomography and cone beam computed tomography. PART 1
- Radiology in oral surgery: periapical radiographies, orthopantomography and cone beam computed tomography. PART 2
- Radiological diagnosis in oral surgery.
- Radiology in oral surgery: periapical radiographs, orthopantomography and cone beam computed tomography.
- Cone beam computed tomography (CBCT)

Unit 1.3.- Surgical procedure

- Instruments
- Pre-operative phase
- Operative phase
- Post-operative phase

## Module 2. Anatomy in Oral Surgery

### Unit 2.1.- Presentation

- The oral cavity and adjacent anatomical regions

### Unit 2.2.- Osteology of the facial massif

- Facial massif, upper jawbone

### Unit 2.3.- Lower jaw

- Study of the face, carotid gland. Facial nerve
- Facial artery.
- TMJ superficial and intermediate plane.
- Deep plane TMJ and infratemporal fossa.
- Submandibular region
- Submental region
- Floor of the mouth and tongue

### Unit 2.4.- Upper jaw

- Upper maxilla (maxillary sinus)
- Orbital fossa
- Nasal fossa, ethmoid bone, turbinates

## Module 3. Locoregional anaesthesia and conscious sedation.

### Unit 3.1.- Loco-regional anaesthesia

- Presentation
- Introduction to anaesthesia. Pain from oral tissues
- Nerve conduction block.
- Anaesthetic equipment. General recommendations
- Primary anaesthetic techniques in dentistry.
- Secondary anaesthetic techniques in anaesthesia
- Local anaesthesia complications in dentistry
- General complications after dental anaesthesia

### Unit 3.2.- Conscious sedation

- Intravenous conscious sedation
- Justification of sedation
- Levels of sedation
- Patient assessment
- Monitoring and basic components
- Pharmacology of sedation
- Recovery and discharge criteria
- Cardiopulmonary resuscitation
- Cardiopulmonary resuscitation
- Defibrillation
- Airway management in a dental clinic
- Airway obstruction
- Emergencies and airway maintenance in the dental surgery
- Preliminary considerations
- Most common medical emergencies: vagal reaction and allergic reaction
- Other medical emergencies

## Module 4. Complex exodontia. Complications

### Unit 4.1.- Exodontics

- Basic principles of extractions
- Exodontia of maxillary permanent teeth

### Unit 4.2.2. Complex extractions

- Complex extractions: open surgical extraction

### Unit 4.3.- Complications of extractions

- Complications of exodontia

## Module 5. Treatment of dental inclusions

### Unit 5.1.- Included teeth generalities. Wisdom teeth.

- Included teeth. Generalities
- Tooth retention.

- Pathology of the third molar.
- Therapeutic approach
- Complications and therapeutic guidelines

#### Unit 5.2.- Included canines

- Canine teeth: exodontia
- Canines: Surgical-orthodontic treatment
- Ortho-perio approach to treat included canines. Diagnosis, procedure, clinical cases.

#### Unit 5.3.- Other inclusions. Transplants

- Other included teeth.
- Supranumerary teeth.
- Tooth transplants.

### Module 6. Exodontic complications of impacted teeth. Orthodontics and oral and maxillofacial surgery.

#### Unit 6.1.- Complications in the extraction of impacted teeth.

- Infectious and nervous complications of the extraction of included teeth.
- Other complications of the extraction of included teeth.

#### Unit 6.2.- Orthodontics and oral and maxillofacial surgery.

- Buccal braces
- Orthodontic-surgical treatment of teeth 1 and 2.
- Orthognathic surgery

### Module 7. Pre-prosthetic surgery. Biopsies. Braces

#### Unit 7.1.- Pre-prosthetic surgery.

#### Unit 7.2.- Biopsies.

#### Unit 7.3.- Braces.

#### Unit 7.4.- Facial aesthetic fillings.

### Module 8. Periapical surgery

#### Unit 8.1.- Diagnosis in periapical surgery.

- Introduction to periapical surgery.
- Reendodontics or periapical surgery? Criteria for healing in PC.
- Indications for periapical surgery
- Contraindications for periapical surgery.
- Clinical and radiological diagnosis in periapical surgery
- Intraoperative diagnosis: importance of magnification
- Pathology of odontogenic cystic lesions
- Orthograde" endodontics for periapical lesions

#### Unit 8.2.- Treatment in periapical surgery

- Surgical technique: instruments. Anaesthesia
- Incision or flap design.
- Elevation and separation of the flap
- Ostectomy and debridement of the lesion
- Apicoectomy
- Preparation of the retrograde cavity
- Control of bleeding
- Retrograde obturation
- Regeneration of the defect
- Suture. Postoperative treatment
- Clinical cases of periapical surgery. Part II

### Module 9. Diagnosis and treatment of odontogenic infections of bacterial origin

#### Unit 9.1.- Odontogenic infection generalities

- Concept, aetiopathogenesis and diagnosis of odontogenic infection
- Evolution and clinical pictures of odontogenic infection: periapical periodontitis
- Progression and dissemination of odontogenic infection
- Evolution and clinical pictures of odontogenic infection: abscesses and cellulitis
- Periapical pathology of dental implants

#### Unit 9.2.- Odontogenic infection particularities

- Maxillary sinusitis of odontological origin
- Treatment of orosinusal communications
- Complications of odontogenic infection
- Treatment of odontogenic infection
- Prophylactic antibiotics
- Salivary gland infections
- Osteonecrosis

## Module 10. Maxillary cysts

### Unit 10.1.- Classification of maxillary cysts

- Odontogenic cysts of inflammatory origin
- Odontogenic and non-odontogenic developmental cysts

### Unit 10.2.- Cystic pathology

- Differential diagnosis of radiolucent lesions of the jaws
- Treatment of jaw cysts

## Module 11. Tumour pathology

### Unit 11.1.- Maxillary tumours

- Tumoural pathology of the jaws

### Unit 11.2.- Odontogenic tumours

- Odontogenic tumours

### Unit 11.3.- Tumours of the salivary glands

- Tumours of the salivary gland

## Oral implantology

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### GENERAL IMPLANTOLOGY

#### "Module 1. Diagnosis and Planning in Implantology

General concepts and history of implantology.

Topic 1.1.2. Indications and contraindications

Topic 1.1.3. Diagnostics in implantology

#### "Module 2. Anatomy and radiology in Implantology

Topic 2.1.1. Anatomy and radiology applied to implant surgery

Radiographic diagnosis in implantology.

#### "Module 3. Tissue integration and implant system design. Peri-implant bone loss

Tissue integration of implants. Implant macro- and micro-design.

Tissue integration of implants. Implant macro- and micro-design Part 2.

#### "Module 4. Histology in implantology.

Implant surfaces connections: the way to the future.

#### "Module 5. Basic surgical protocol in implantology.

Topic 5.1.1. Basic surgical protocol in implantology.

#### "Module 6. Surgical management of soft tissues.

Topic 6.1.1. Soft tissues Part 1.

Topic 6.1.2. Soft tissues Part 2.

#### " Module 7. Prosthesis on implants.

Unit 7.1. Diagnosis and planning in total and partial edentulous. Types of implant prostheses

Unit 7.2. Biomechanics and occlusion

Unit 7.3. Selection of abutments in Implantoprosthodontics

Unit 7.4. Workshop on selection and management of angled abutments

Unit 7.5. Analogue impressions

Unit 7.6. Workshop on analogue impressions in partial edentulous patients

Unit 7.7. Implant-supported partial denture

Unit 7.8. Implant-supported full arch prosthesis

Unit 7.9. Overdentures

Unit 7.10. New materials in implant-supported prosthodontics

Unit 7.11. Soft Tissue Management with Implant-Supported Provisionals

Unit 7.12. Provisional fabrication workshop and hinds technique

Unit 7.13. Introduction to digital flow and digital impressions

Unit 7.14. BOPT on Implants

Unit 7.15. Immediate loading in the totally edentulous

#### "Module 8. Introduction to bone regeneration.

Topic 8.1.1. Introduction to bone regeneration.

#### "Module 9. Bone regeneration materials.

Topic 9.1.1. Bone regeneration materials.

#### " Module 10. Maxillary sinus lift.

Topic 10.1.1. Maxillary sinus lift.

"Module 11. Implants in the maxillary buttresses and residual bone. Treatment of the atrophic edentulous patient. Classes IV, V and VI

Topic 11.1.1. Zygomatic implants.

"Module 12. Implants in the aesthetic sector.

Unit 12.1. Anatomy and biology of the post-extraction alveolus.

Unit 12.2. Workflow in implantology in the aesthetic sector Unit 12.3.

Unit 12.3. Three-dimensional implant position

Unit 12.4. Implant placement moment

Unit 12.5. ROG in the aesthetic sector

Unit 12.6. Provisionalisation and impressions

"Introduction to guided surgery.

Anatomy and biology of the post-extraction socket.

"Module 14. Early complications in implantology.

Topic 14.1.1. Early complications in implantology.

"Module 15. Maintenance of implant treatment. Diagnosis, prevention and treatment of peri-implant diseases.

Anatomy and biology of the post-extraction alveolus.

Workshop on the treatment of peri-implantitis.

"Module 16. Implantology in older patients.

Topic 16.1.1. Implantology in elderly patients.

#### ADVANCED IMPLANTOLOGY

"Module 17.- Implantoprosthesis

Implant-prosthetic abutment and retention screw

" Module 18.- Guided Surgery

Unit 18.1. Guided surgery

Topic 18.1.1. Guided surgery - generalities

Unit 18.1.2. Guided surgery - single tooth edentulousness

Section 18.1.3. Guided Surgery in Partial Edentulism

Guided Surgery - Computer Guided Treatments - Total Edentulism - Overdenture

Unit 18.2. Navigated Surgery

Topic 18.2.1. Navigated Surgery - Concepts

Unit 18.2.2. Navigated Surgery - units

Topic 18.2.3. Navigated Surgery - Partial Edentulousness

Unit 18.3. Double factor

Double factor technique. Guided and Navigated Fusion

"Aetiology, diagnosis and treatment of peri-implant diseases.

Atraumatic sinus lift: Summers 2.0.

New therapeutic alternatives in the management of patients with medication-induced osteonecrosis of the jaw

Topic 19.1.3. Peri-implant diseases (epi)

Bone regeneration by means of xenograft blocks, simplifying the technique

Topic 19.1.5. Preventing marginal peri-implant bone loss

"Module 20.- Alveolar Distraction

Topic 20.1.1. Alveolar Distraction

"Module 21.- All on four

Guided surgery - computer guided treatments - total edentulism - all on four- all on six

Topic 21.1.2. All on four

#### Master's Thesis

- Cover Letter
- Portfolio
- Curriculum Vitae

#### PROFESORADO

##### Rubén Agustín Panadero

Profesor/a Titular de Universidad. Departament d'Estomatologia. Universitat de València

##### Ricardo Aiuto

Odontólogo. Istituto Stomatologico. Italia.

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**Pablo Galindo**

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**Paulo Fernando Mesquita Carvalho**

Coordinador científico

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**José Gabriel Ortolá Dinnbier**

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**Jesús Pato Moruelo**

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**Pablo Pavon Fraile**

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University of Chieti-Pescara

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Directora - Gerente. Carmen Pomares Puig (Clínica PeriImplant)

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Cirujano clínica privada.

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## OBJETIVOS

Las salidas profesionales que tiene el curso son:

The professional opportunities are mainly aimed at the clinical care field. Students who complete the SEMIPRESENTIAL INTERNATIONAL MASTER'S DEGREE IN IMPLANTOLOGY AND ORAL SURGERY are trained to diagnose and develop the best treatment plan for the different oral pathologies that require surgical attention in a dental office. They are also able to diagnose, plan and carry out the functional and aesthetic rehabilitation of patients who have lost teeth using dental implants and bone and soft tissue regeneration procedures if necessary. This professional profile is in great demand in the dental sector, and is present in practically all dental clinics. For some students, this Master's degree can also be the start of an academic and/or research career.

The main objective of this Master's Degree is to train specialists in Oral Surgery and Implantology, guided by scientific evidence. Therefore, as part of their postgraduate training, students will learn to consult and critically evaluate the scientific literature. The theoretical-practical content totals 60 ECTS credits. Students will receive online theoretical-practical training and will participate in face-to-face clinical activity with patients at the University or at an internship centre with an agreement with the University. The student will request the practice centre from those proposed by the University or will designate one of their own



choice from any country. They will plan and carry out progressively more complex cases throughout the Master's programme, with partial dedication and tailored to the student's needs.

Specific objectives: Students taking this degree will develop in the subject of Oral Surgery: the theoretical and practical knowledge necessary to perform surgical extractions, fenestrations, periapical surgery, soft tissue surgery, knowledge of the surgical treatment of infections, cysts and tumours. In the subject of Implantology, students will develop the necessary knowledge to place dental implants, as well as to rehabilitate partially or totally edentulous cases with prostheses on dental implants or which may require bone grafts or gum grafts.

Los contenidos teórico-prácticos son en total 60 créditos ECTS. La Cirugía e Implantología Oral, son unas disciplinas complejas que exigen estudio y dedicación, durante años. A lo largo del curso, los alumnos recibirán formación teórica-práctica online y participarán de la actividad clínica presencial con pacientes en un centro de prácticas externo a la Universitat. El alumno solicitará el centro de prácticas de los propuestos por la Universitat o designará uno de libre elección de cualquier país. Planificarán y realizarán casos progresivamente más complejos a lo largo de la programación del Máster

r, con una dedicación parcial y a medida del alumno.

#### Professional objectives

The professional opportunities are fundamentally aimed at the clinical care field. The course is aimed at improving the theoretical and practical training of students. So that they are able to carry out implantology and oral surgery treatments with the minimum morbidity and the highest success rate. This professional profile of a dentist with special dedication to implantology and oral surgery is in great demand in the dental sector, and is present in practically all dental clinics, as nowadays with the great growth of information in dentistry it is impossible to cover all branches of knowledge.

## METODOLOGÍA

This training programme offers a different way of learning. Our methodology is developed through a cyclical way of learning: Relearning. This learning process combines real cases, the resolution of complex situations by simulation, the study of clinical cases and learning based on repetition. As a result, the content is retained in the memory for a longer period of time.

During the first part of the course, the student's activity will be focused on learning the indication and execution of oral surgery procedures (simple and complex dental extractions: third molars and included canines, root rests; braces, torus, maxillary cysts, periapical surgery, etc.).

In the second part of the course, the activity will focus on diagnosis, planning, implant placement and rehabilitation of implant cases. The student will begin by understanding the treatment of simple cases of single implants and will progress towards more complex treatments (total edentulous, aesthetic implants, immediate implants, atrophic cases requiring gum or bone grafts, sinus lift, immediate loading, etc.).

In order to achieve the objectives set, the methodology used is based on the use of the Virtual Classroom of the University of Valencia, theoretical lessons and practical workshops, clinical cases, bibliographic resources and face-to-face clinical practice.

#### Teaching resources:

The teaching will be carried out through the Virtual Classroom platform of the University of Valencia, available to the student, at any time, from a fixed or portable device with internet connection. Each week the different modules are opened and remain open throughout the academic year.

#### Voice-over lessons

The theoretical lessons will be developed through asynchronous, voice-over clinical presentations, with abundant and selected clinical iconography and diagnostic images. The texts will be available in pdf format to facilitate the student's study. All lectures will be in English and some will be in Spanish.

#### Practical worksho

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Practical workshops will be given with phantom models, which will reproduce the different pathologies and will guide the student through the surgical procedures. All workshops will be conducted in English and some will have texts in Spanish.

#### Clinical cases

Students will have access to real clinical cases, presented by experts, in which they will learn how to take a clinical history, make a clinical and differential diagnosis, and plan and carry out treatment.

#### Bibliographic resources

- Books and e-pubs published by teachers.
- Access to scientific databases.

#### Clinical practicals

Optional extracurricular clinical practicals with patients will be programmed in practice centres agreed with the Universitat de València, for three weeks during the academic year, organised by each of the affiliated centres or in centres freely designated by the student, in different countries, for a maximum of 900 hours per academic year. When the lecturers consider that they are qualified, the students will perform the surgeries from less to more complex depending on the skills of each student.