

Course Description

SUBJECT: INTRODUCTION TO DENTISTRY

1 ST. COURSE 1 ST. SEMESTER

DEGREE: DENTISTRY

TYPE OF COURSE: ATTENDANCE IS REQUIRED

ACADEMIC YEAR: 2021/2022

FACULTY OF MEDICINE

1. SUBJECT IDENTIFICATION

1.- COURSE/SUBJECT:

Name: INTRODUCTION TO DENTISTRY		
CODE: 19689		
Course in which it is taught: 1st.	Semester in which it is taught: 1st	
Type: MANDATORY	ECTS: 6	Hours ECTS: 30
Language: ENGLISH	Modality: Assistance is required	
Degree in which the course is taught: DENTISTRY		
School in which the course is taught: MEDICINE		

2.- ORGANIZATION OF THE COURSE:

Department: DENTISTRY
Knowledge area: ESTOMATOLOGY

2. SUBJECT TEACHERS

1.-TEACHER IDENTIFICATION:

Responsible of the Course	CONTACT
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Teaching and Research profile	DOCTOR IN DENTISTRY UCM. CLINICAL PRACTICE

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2.- TUTORIAL ACTIVITY:

For all queries related to the subject, students can contact the teachers through their e-mail, telephone and or visiting their office at the tutoring hours published on the students' Virtual Campus.

3. SUBJECT DESCRIPTION

Introduction to terminology, nomenclature, and usual dental procedures. Knowledge of the physical and instrumental space, acquiring appropriate habits.

4. COMPETENCIES

1.- COMPETENCIES:

Code	Basic and General Skills
CB2	That students know how to apply their knowledge to their work in a professional manner and possess the skills that are usually demonstrated through the elaboration and defense of arguments and the resolution of problems within their area of study
CG17	Understand and recognize the principles of ergonomics and safety at work (including cross-infection control, radiation protection and occupational and biological diseases).
CG07	Promote autonomous learning of new knowledge and techniques, as well as motivation for quality.

Code	Specific Skills
CE.4	Know the scientific principles of sterilization, disinfection and antisepsis necessary to prevent cross infections in dental practice.
CE.7	Know the clinical and laboratory diagnostic procedures and tests, know their reliability and diagnostic validity and be competent in the interpretation of their results.
CE.8	Recognize normality and oral pathology, as well as the evaluation of semiological data.
CE.9	Identify the main reason for consultation and the history of the current disease. Perform a general medical history of the patient and a clinical record that faithfully reflects the patient's records.
CE.10	Perform a general medical history of the patient and a medical record that faithfully reflects the patient's records.
CE.11	Learn the science of behaviour and communication that facilitate the practice of dentistry.
CE.15	Learn about and use the basic equipment and instruments for dental practice.

CE.16	Apply the principles of ergonomics in dental work, both individually and within the work team when appropriate, as well as in the principles of occupational risk prevention associated with dental practice.
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2.- LEARNING OUTCOMES:

Code	Learning Outcomes
	Know the most relevant characteristics and functions of the oral cavity and teeth using a specifically dental terminology.
	Understand the most important clinical, prophylactic, diagnostic and therapeutic procedures, identifying the different basic means and computer elements for data collection, and the diagnosis of oral pathology, as well as the use of appropriate instruments.
	Know the physical space that constitutes the dental clinic, as well as the equipment and instruments used in it.
	Define the concepts and explain the importance of the methods of protection, hygiene, disinfection and dental sterilization.
	Create habits from the beginning and acquire skills and attitudes that allow the start of activities in the clinic, adopting the general principles of ergonomics.

5. FORMATION ACTIVITIES

1.- STUDENTS WORK DISTRIBUTION:

Course Total Hours	150
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Code	Name	On-campus hours
	Theoretical practical classes	41
	Laboratory practices - clinical practice	18
	Others (exams, etc)	4
TOTAL Presence Hours		63

Code	Name	Not on-campus hours
	Study of theoretical classes and exam preparation	69
	Preparation of the Practices and the continuous evaluation	18
TOTAL	Hours of autonomous student work:	87

2.- DESCRIPTION TRAINING ACTIVITIES:

Activity	Definition
Theoretical class	– The teacher will present the topics corresponding to the program.
Practical Seminars	<ul style="list-style-type: none"> – Practical seminars will be taught, following the program of the subject, with the active participation of students. Teaching support materials will be used – The seminars will be held in sessions distributed throughout the semester. Students will prepare their practice notebooks and present their work.
Practices	<ul style="list-style-type: none"> – The practical classes will be developed in 6 sessions, distributed throughout the semester. – The students will organize themselves in work groups to realize the practical part proposed in the program of the subject, always under the supervision of the responsible professor. Once the corresponding practice shift has been assigned, no change will be allowed unless justified cause.
Autonomous Student Work:	<ul style="list-style-type: none"> - Individual study of theoretical classes and written tests – Preparation of the workbook. – Complementary bibliography reading – Preparation of oral presentations. – Preparation of practices.

6. EVALUATION SYSTEMS AND CRITERIA

1.- CLASS ATTENDANCE:

- Daily attendance checks will be performed.
- In order to qualify for the continuous evaluation system, attendance at 75% of theory classes is required
- **Attendance at practical classes is mandatory 100% to pass the subject.** Since the realization of practices between the ordinary call and the extraordinary call is not contemplated, the non-realization of these in the scheduled months entails the suspension of both calls.

2.- EVALUATION SYSTEMS AND CRITERIA:

ORDINARY CALL (Continuous Evaluation)		
Code	Name	Percentage
SE1	Theoretical evaluation	60
SE2	Practical evaluation. Continuous assessment.	30
SE3	Individual and / or group work. Attendance and attitude in the classroom	10
	Total	100

EXTRAORDINARY CALL / RE-TAKE EXAM		
Code	Name	Percentage
SE1	Theoretical evaluation	60
SE2	Practical evaluation. Continuous assessment.	30
SE3	Individual and / or group work. Attendance and attitude in the classroom	10
	Total	100

3.- EVALUATION SYSTEMS DESCRIPTION:

Evaluation Systems	Description
Theoretical evaluation	Written test in which the totality of the contents of the subjects is evaluated as well as the degree of acquisition of the competences related to them. Exams (or evaluation tests) will be carried out with theoretical-practical questions and resolution of assumptions that collect the contents of the subject studied.
Practical evaluation	The practices will be valued through practical exercises, notebooks, exams, performance and presentation of work, clinical cases, etc ... that collect the practical contents worked on. <u>The subject will not be passed if the practical part of it is pending.</u>
Works	Evaluation of Works, done individually or in groups, carried out in the classroom or outside of it.
Extraordinary Call	The student who does not pass the subject in the ordinary call must submit to the final exam of the extraordinary call, which will cover all the subject matter contained in the subject. In the period of time between the ordinary and the extraordinary call, the realization of practices is not contemplated. It is a requirement to have completed and approved the practices to pass the subject. Written evaluation (objective tests). In the qualification of the extraordinary call, the percentages established in the continuous evaluation will not be applied, and this will be that of the extraordinary exam, taking into account the mark of practices that must be greater than or equal to five points out of ten.
	"The student who does not attend the final exam in ordinary or extraordinary call will be qualified with " Not Submitted ", regardless of having done any academic activity of the continuous assessment."

7. COURSE PROGRAM

1.- COURSE PROGRAM:

THEORETICAL PROGRAM:

THEMATIC BLOCK I. GENERAL, TERMINOLOGY AND NOMENCLATURE.

Unit 1. General characteristics of facial structures.

Unit 2. Nomenclature.

THEMATIC BLOCK II. ACTIVITIES IN THE DENTISTRY CLINIC: TECHNOLOGICAL PRINCIPLES, BIOMECHANICAL FOUNDATIONS AND APPLICATION OF BIOMATERIALS IN DENTOBUCAL TISSUES.

Unit 3. Dental activities. Informed consent, clinical history, examination and diagnosis. Clinical record and Odontogram

Unit 4. Most frequent pathology in dentistry. Initiation to the study of periodontal disease. Preventive bases in the dental clinic.

Unit 5. Technological and biomaterial applications as therapeutic means. Caries

Unit 6. The surgical medical practice in the dental clinic. Most common surgical practices.

Unit 7. The pediatric patient. Introduction to orthodontics in the dental clinic.

THEMATIC BLOCK III. INSTRUMENTAL AND BASIC EQUIPMENT FOR THE DENTAL PRACTICE

Unit 8. The dental clinic. Clinic areas. Basic equipment structures.

Unit 9. Instrumental. General description and classification of instruments. Simple instruments. Differentiation of rotary instruments.

Unit 10. Instrumental II: Functions and characteristics of instruments in dental specialties.

Unit 11. Protection, cleaning, disinfection sterilization and conservation in the clinic.

THEMATIC BLOCK IV. BASIC CONCEPTS OF ERGONOMICS IN THE DENTAL CLINIC.

Unit 12. Ergonomics. Basics of ergonomics. Historical background. Ergonomics applied to dentistry.

Unit 13. Job Positions. Ergonomic positions and positions of the Dentist. Auxiliary Position. Patient Position. Approach of the patient. Lamp position of the dental equipment.

Unit 14: Organization of the dental office. People from the oral health team .. Dentist. Auxiliary staff. Laboratory staff. Complementary staff

Unit 15: Teamwork. 4 Four hands work. Instrument transfer and exchange. Ergonomic recommendations in the dental clinic. Prevention of occupational hazards.

PRACTICE PROGRAM:

- **PRACTICE 1 (CLASSROOM):** Glossary and Dental terminology.
- **PRACTICE 2 (CLASSROOM):** Initiation to the figures of dental interest.

- **PRACTICE 3 (CLASSROOM):** Relevant characteristics of dental pieces.
- **PRACTICE 4 (CLASSROOM):** Dental nomenclature
- **PRACTICE 5 (CLASSROOM):** Initiation to diagnostic procedures: Odontogram
- **PRACTICE 6 (CLASSROOM):** Psychomotor training with mirror vision: Prevention of occupational hazards: psychomotor training with mirror vision. Traces on the plane and transport of objects in space with indirect vision.
- **PRACTICE 7: (CLASSROOM)** Characteristics of instruments in Dentistry
- **PRACTICE 8:** Recognition and management of basic dental instruments. Rotating instruments.
- **PRACTICE 9:** The dental clinic: equipment and operation. Application of protection, hygiene, disinfection and sterilization measures in the clinic
- **PRACTICE 10:** Basic ergonomic principles. Work positions: position of the dentist, the assistant and the patient. Exercises in simulated clinic.
- **PRACTICE 11:** Realización en clínica de historia clínica. La exploración clínica.
- **PRACTICE 12:** Equipo de trabajo en clínica simulada. Odontograma en clínica simulada, adoptando posiciones ergonómicas.
- **PRACTICE 13:** Management of dental equipment. Evaluation of the notebook of practices and competences.

8. RECOMMENDED BIBLIOGRAPHY

1.- ESSENTIAL BIBLIOGRAPHY:

- BIRD,D., ROBINSON,D.: "Modern Dental Assisting" .ED Elsevier.(2015)
- BARTOLOMUCCI BOYD, L.R.: "*Dental instruments: A pocket guide* ".Elsevier Imprint (2009).

2.- ADDITIONAL BIBLIOGRAPHY:

- "MOSBY'S DENTAL DICTIONARY" Ed. Elsevier. (2009).
- WOELFEI JB, SCHEID RC "Dental Anatomy". ED Masson (2003)
- MURPHY DC. "Ergonomics and the Dental Care Worker" American Public Health Association, United Book Press, Washington DC (1998)
- "Ergonomics and Disability Support Advisory Committee (EDSAC) to the Council on Dental Practice (CDP). An introduction to ergonomics: risk factors, MSDs, approaches and interventions." American Dental Association;2004

3.- UTILITY WEB RESOURCES:

- Pubmed: <http://www.ncbi.nlm.gov/pubmed>
- <http://www.posturedontics.com/>
- Cochrane Library Plus :<http://www.update-software.com/clibplus/clibplus.asp>
- Dental instruments:<http://www.evolve.elsevier.com/Boyd/dentalinstruments/>

9. BEHAVIOR RULES

- **To pass the subject, it will be essential to overcome both the theoretical and the practical part. Percentages will not be applied if the grade of one of the two sections is less than 5.**
- Failures in Academic Integrity (absence of citation from sources, job plagiarism or improper / prohibited use of information during exams), as well as signing on the attendance sheet for a classmate who is not in class, will imply the loss of the evaluation, notwithstanding the sanctioning actions that are established.
- The use of electronic devices during classes, both theoretical and practical, or during evaluation assessments is not allowed.
- The use of the documentation provided by the teacher through the student portal (presentations, seminars, practice books, etc.) is restricted to the preparation of the subject. Teachers reserve the right to make use of the measures contained in current legislation on Intellectual Property, in cases where an unauthorized use and / or disclosure of such material is detected.
- The student who does not go with a white coat and whose coat does not meet the necessary hygiene and care standards will not enter into laboratory practices. It will be essential for the realization of each practice that the student possesses all the required material.
- The care, correct use and maintenance of the equipment, instruments, materials used, and dental chairs where the practices will be carried out will be decisive in the practical evaluation of the subject. The order in the workplace and correct behavior will be essential for the evaluation of practices. Everything should be collected at the end of the internship.

Each student couple will be solely and exclusively responsible for their work site.