

Republic of Iraq  
Ministry of Higher Education & Scientific Research  
Supervision and Scientific Evaluation Directorate  
Quality Assurance and Academic Accreditation  
International Accreditation Dept.

## Academic Program Specification For the Academic year 2021-2022

University: University of Baghdad  
College: College of Dentistry  
Number Of Departments in The College: Eight departments  
Date Of Form Completion :2021-2022

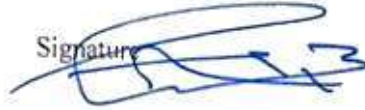
Dean 's Name:

Prof.Dr.Raghad Abdulrazzaq Alhashimi

Signature 

Dean 's Assistant for Scientific  
Affairs:  
Prof.Dr.Ali Ismail Ibrahim

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The College Quality Assurance  
And University Performance Manager:  
Lecturer. Yasameen Hasan Motea

Signature



Quality Assurance and University Performance Manager: Lecturer. Yasameen Hasan Motea

Signature:



## Description of the Academic Programme

This description of the academic programme provides a brief account of the most important characteristics of the programme and the learning outcomes expected by the student to achieve. It highlights on whether they have made the most advantages of the opportunities available. It is accompanied by a description of each academic course within the programme.

|  |   |
|--|---|
| <b>1. Educational Institution</b>              | Ministry of Higher Education and Scientific Research/<br>University of Baghdad                                  |
| <b>2. University Department \ Centre</b>       | College of dentistry  |
| <b>3. Name of Academic Programme</b>           | Dentistry   |
| <b>4.The name of the final certificate</b>     | Bachelor's degree in Oral, Maxillofacial and Dental Medicine and Surgery  |
| <b>5. Academic Study System</b>                | Yearly  |
| <b>6. Approved Accreditation Programme</b>     |   |
| <b>7. Other External Influences</b>            | Academic Training Courses to develop the professional skills of students /summer training courses for two years |
| <b>8. Preparation Date of this Description</b> | 2021-2022.  |

### 9. Objectives of the Academic Programme

The College of Dentistry was established in 1953 and aims at preparing medical cadres specialised in Oral, Maxillofacial and Dental Medicine and Surgery at a distinguished scientific and professional level. The faculty has a special dental teaching hospital, where students are clinically trained in modern clinics and in all academic disciplines of dentistry ( Oral, Maxillofacial and Dental Medicine and Surgery, prosthodontics, pedodontics and preventive dental medicine, orthodontics, dental plastic surgery, periodontics and oral diagnosis) using the latest techniques, in addition to delivering lectures and teaching the students in various scientific and applied laboratories, and the duration of the study in the faculty is five years.

## 10. Programme outputs and teaching, learning and assessment methods

### **(A) Cognitive Objectives (Knowledge and Understanding)**

- A.1- students gain knowledge of scientific and medical terminology used in dentistry and theoretical subjects.
- A.2- student familiarises with different types of materials and equipment used in the field of dentistry.
- A.3- developing students confidence to deal with all types of patients.
- A.4- developing students capacity to deal with different treatment situations.
- A.5- promoting the principles of participation of a group of students to discuss a pathological condition and how to treat it.
- A.6- providing students with full knowledge for preparing an integrated treatment plan for patients.

### **B—Programme Skill Objectives**

- B.3- Promoting the ethics of the profession and dealing of patients by the graduates B.2. Students acquire different therapeutic skills
- B.1. Promoting the principle of lifelong learning in order to continue professional development.

### **Methods of Teaching and Learning**

- Lecturing.
- Providing students with lectures on the faculty site.
- Instructional films.
- Monitors and digital cameras.
- Using instructional models.
- Academic training courses and workshops.
- Applied clinical education.
- Aggregation of students

### **Assessment Methods**

- Theoretical tests.
- Oral tests.
- Laboratory practical tests.
- Mannequin process tests.
- Practical tests on patients.
- Reports and studies

### **C—Emotional and Moral Targets**

C1—Thinking Skill depends on student ability (let think about thinking ability). The goal of this skill is to make students to believe what is concrete (student capacity) to understand when, what and how to think and improve their ability to think reasonably.

C2—Critical thinking skill that aims to pose a problem, analyse it logically and reach the solution required.

C3—Student awareness of the need to balance freedom and responsibility.

C4—Making the right decision for the benefit of the patient and based on logical reasoning.

### **Methods of Teaching and Learning**

- Lectures that assess student research and teaching them ways to confront and solve problems.
- Following up the way student thinks, how they make expression and how quickly they respond.
- Laboratory experiments.
- Self-study.

### **Assessment Methods**

- Theoretical tests
- Practical tests
- Reports and studies.

## **11. Programme Structure**

| Level\ Year      | Course Name                | Course Code       | Credit Hours |             |
|------------------|----------------------------|-------------------|--------------|-------------|
|                  |                            |                   | Practical    | theoretical |
| <b>First</b>     | (Human Anatomy)            | 101AN             | 60           | 30          |
|                  | (Medical Terminology)      | 102MT             | 0            | 30          |
|                  | (Computer Sciences)        | 103CS             | 60           | 0           |
|                  | (Dental Anatomy)           | 104DA             | 60           | 30          |
|                  | Human Rights and Democracy | 105HRAD           |              | 30          |
|                  | (Medical Chemistry)        | 106CH             | 60           | 60          |
|                  | (Medical Physics)          | 107PS             | 60           | 60          |
|                  | (Biology)                  | 108BL             | 60           | 60          |
|                  | (English Language)         | 110EL             | 0            | 30          |
|                  | <b>Second</b>              | (Dental Material) | 209DM        | 60          |
| (Prosthodontics) |                            | 210PR             | 120          | 30          |
| (Embryology)     |                            | 211EL             | 60           | 30          |
|                  |                            |                   |              |             |



| Level\ Year | Course Name              | Course Code | Credit Hours |             |
|-------------|--------------------------|-------------|--------------|-------------|
|             |                          |             | Practical    | theoretical |
| Second      | (Biochemistry)           | 212BC       | 60           | 60          |
|             | (General Histology)      | 213GH       | 60           | 60          |
|             | (General Physiology)     | 214PH       | 60           | 60          |
|             | (Computer Sciences)      | 203CS       | 0            | 30          |
|             | (Oral Histology)         | 215OH       | 60           | 30          |
|             | (Anatomy)                | 201AN       | 60           | 30          |
|             | (Biosafety & Security)   | 216BS       | 0            | 15          |
| Third       | (Microbiology)           | 316MB       | 60           | 60          |
|             | (Pharmacology)           | 317PC       | 60           | 60          |
|             | (Community Dentistry)    | 318CM       | 60           | 30          |
|             | (Conservative dentistry) | 319CV       | 120          | 60          |
|             | (Dental Radiology)       | 320RL       | 60           | 30          |
|             | (General Pathology)      | 321PA       | 60           | 60          |
|             | (Oral Surgery)           | 322OS       | 60           | 30          |
|             | (Prosthodontics)         | 310PR       | 60           | 30          |
|             |                          |             |              |             |
|             |                          |             |              |             |

| Level\ Year      | Course Name              | Course Code              | Credit Hours |             |    |
|------------------|--------------------------|--------------------------|--------------|-------------|----|
|                  |                          |                          | Practical    | theoretical |    |
| Fourth           | (General Medicine)       | 423GM                    | 75           | 30          |    |
|                  | (General Surgery)        | 424GS                    | 75           | 30          |    |
|                  | (Oral Surgery)           | 422OS                    | 150          | 30          |    |
|                  | (Conservative Dentistry) | 419CV                    | 150          | 30          |    |
|                  | (Oral Pathology)         | 425OP                    | 90           | 60          |    |
|                  | (Orthodontic)            | 426OD                    | 150          | 30          |    |
|                  | (Pedodontics)            | 427PE                    | 0            | 30          |    |
|                  | (Periodontics)           | 428PT                    | 75           | 30          |    |
|                  | (Prosthodontics)         | 410PR                    | 75           | 30          |    |
|                  | Fifth                    | (Conservative Dentistry) | 519CV        | 150         | 30 |
|                  |                          | (Oral Medicine)          | 529OM        | 75          | 30 |
| (Oral Surgery)   |                          | 522OS                    | 150          | 30          |    |
| (Pedodontics)    |                          | 530PAPD                  | 37.5         | 30          |    |
| (Prevention)     |                          | 531PD                    | 37.5         | 30          |    |
| (Prosthodontics) |                          | 510PR                    | 150          | 30          |    |
| (Orthodontics)   |                          | 526OD                    | 75           | 30          |    |
| (Periodontics)   |                          | 528PT                    | 75           | 30          |    |

## 12. Certified certificates and hours

The first stage requires certified (750 hours) and (38units)

The second stage requires certified (915 hours) and (42.5 units)

The third stage requires certified (900 hours) and (42 units)

The fourth stage requires certified (1140 hours) and (48 units) plus (208 hours) summer training

Total hours for the fourth stage are (1348 hours)

The fifth stage requires certified (1050 hours) and (45 units) plus (224 hours) summer training

Total hours for the fifth stage are (1274 hours)

Bachelor's degree in Oral, Maxillofacial and Dental Medicine and Surgery requires (5112) certified hours for all five years of study.

## 13. Plan your personal development

**Negotiation and persuasion:** The student can influence, persuade, discuss and reach agreements.

**Leadership:** The student must lead, motivate and guide others.

**Independence at work:** The student can take responsibility and work independently under different circumstances.

## 4. Acceptance criterion (establishment of regulations on admission to the faculty or institute)

Admission criteria include students with a certain cumulative rate according to the central admission system, as well as students with physical, mental and social capacity to manage any medical condition or practice required by the study. Most dental schools require personal interviews with candidates to assess qualities such as the desire to help people, self-confidence, and the ability to meet challenges, the ability to work with people and the ability to work independently.

## 1. Top sources of information about the programme

1. Faculty and University website.

2. University Guide.

3. Books and scientific resources of the faculty.

### Curriculum Skills Chart

Please indicate the boxes corresponding to the individual learning outcomes from the academic course being evaluated

| Required learning outcomes from the academic course |                      |                            |                   |                             |    |    |    |                            |    |    |    |                 |    |    |    |   |    |    |    |   |
|---|----------------------|----------------------------|-------------------|-----------------------------|----|----|----|----------------------------|----|----|----|-----------------|----|----|----|---|----|----|----|---|
| Year \Level   | Academic Course Code | Academic Course Name       | Basic or Optional | Knowledge and understanding |    |    |    | Programme Skill Objectives |    |    |    | Thinking Skills |    |    |    | General and gained skills (or) other skills related to employability and personal development |    |    |    |   |
|   |                      |                            |                   | A1                          | A2 | A3 | A4 | B1                         | B2 | B3 | B4 | C1              | C2 | C3 | C4 | D1  | D2 | D3 | D4 |   |
| <b>First Year</b>                                   | 101AN                | Human Anatomy              | Basic             | √                           | √  |    |    | √                          | √  |    |    | √               | √  | √  | √  | √   | √  | √  | √  |   |
|   | 102MT                | Medical Terminology        | Basic             | √                           | √  |    |    | √                          | √  | √  | √  | √               | √  | √  | √  | √   | √  | √  | √  |   |
|   | 103CS                | Computer Sciences          | Basic             | √                           | √  |    |    | √                          | √  |    |    | √               | √  | √  | √  | √   | √  | √  | √  |   |
|   | 104DA                | Dental Anatomy             | Basic             | √                           | √  |    |    | √                          |    |    |    | √               | √  |    |    | √   | √  |    |    |   |
|   | 105HRAD              | Human Rights and Democracy | Basic             | √                           | √  |    |    | √                          | √  |    |    | √               | √  |    |    | √   |    |    |    |   |
|   | 106CH                | Medical Chemistry          | Basic             | √                           | √  | √  |    | √                          | √  | √  |    |                 | √  | √  | √  |   | √  | √  | √  | √ |
|   | 107PS                | Medical Physics            | Basic             | √                           | √  | √  | √  | √                          | √  |    |    |                 | √  | √  | √  | √   | √  |    |    |   |
|   | 108BL                | Biology                    | Basic             | √                           | √  | √  | √  | √                          | √  | √  |    |                 | √  | √  | √  | √   | √  | √  | √  | √ |
|   | 110EL                | English Language           | Basic             | √                           | √  |    |    | √                          | √  | √  |    |                 | √  | √  |    |   |    |    |    |   |

### Curriculum Skills Chart

Please indicate the boxes corresponding to the individual learning outcomes from the academic course being evaluated

|                    |                        |                      |                   | Required learning outcomes from the academic course |    |    |    |                            |    |    |    |                 |    |    |    |   |    |    |    |
|--------------------|------------------------|----------------------|-------------------|---|----|----|----|----------------------------|----|----|----|-----------------|----|----|----|---|----|----|----|
| Year \Level        | Academic Course Code   | Academic Course Name | Basic or Optional | Knowledge and understanding                         |    |    |    | Programme Skill Objectives |    |    |    | Thinking Skills |    |    |    | General and gained skills (or) other skills related to employability and personal development |    |    |    |
|                    |                        |                      |                   | A1  | A2 | A3 | A4 | B1                         | B2 | B3 | B4 | C1              | C2 | C3 | C4 | D1  | D2 | D3 | D4 |
| <b>Second Year</b> | 209DM                  | Dental Material      | <b>Basic</b>      | √   | √  | √  |    | √                          | √  |    |    | √               | √  |    |    | √   |    |    |    |
|                    | 210PR                  | Prosthodontics       | <b>Basic</b>      | √   | √  |    |    | √                          | √  |    |    | √               | √  | √  | √  |   |    |    |    |
|                    | 211EL                  | Embryology           | <b>Basic</b>      | √   | √  | √  |    | √                          | √  |    |    | √               | √  | √  |    | √   | √  |    |    |
|                    | 212BC                  | Biochemistry         | <b>Basic</b>      | √   | √  | √  | √  | √                          | √  | √  |    | √               | √  | √  | √  | √   | √  | √  | √  |
|                    | 213GH                  | General Histology    | <b>Basic</b>      | √   | √  | √  |    | √                          | √  |    |    | √               |    |    |    | √   | √  | √  |    |
|                    | 214PH                  | General Physiology   | <b>Basic</b>      | √   | √  |    |    | √                          |    |    |    | √               | √  |    |    | √   |    |    |    |
|                    | 203CS                  | Computer Sciences    | <b>Basic</b>      | √   | √  |    |    | √                          | √  | √  | √  | √               | √  | √  | √  | √   | √  | √  | √  |
|                    | 215OH                  | Oral Histology       | <b>Basic</b>      | √   | √  |    |    | √                          | √  | √  |    | √               | √  |    |    | √   | √  |    |    |
|                    | 201AN                  | Anatomy              | <b>Basic</b>      | √   | √  |    |    | √                          | √  | √  | √  | √               | √  | √  | √  | √   | √  | √  | √  |
| 216BS              | (Biosafety & Security) | <b>Basic</b>         | √                 | √   | √  |    | √  | √                          | √  | √  | √  | √               | √  | √  | √  | √   | √  | √  |    |

| Curriculum Skills Chart  |                      |                        |                   |   |    |    |    |                            |    |    |    |                 |    |    |    |   |    |    |    |
|--|----------------------|------------------------|-------------------|---|----|----|----|----------------------------|----|----|----|-----------------|----|----|----|---|----|----|----|
| Please indicate the boxes corresponding to the individual learning outcomes from the academic course being evaluated |                      |                        |                   |   |    |    |    |                            |    |    |    |                 |    |    |    |   |    |    |    |
|  |                      |                        |                   | Required learning outcomes from the academic course |    |    |    |                            |    |    |    |                 |    |    |    |   |    |    |    |
| Year \Level  | Academic Course Code | Academic Course Name   | Basic or Optional | Knowledge and understanding                         |    |    |    | Programme Skill Objectives |    |    |    | Thinking Skills |    |    |    | General and gained skills (or) other skills related to employability and personal development |    |    |    |
|  |                      |                        |                   | A1  | A2 | A3 | A4 | B1                         | B2 | B3 | B4 | C1              | C2 | C3 | C4 | D1  | D2 | D3 | D4 |
| <b>Third Year</b>  | 316MB                | Microbiology           | <b>Basic</b>      | √   | √  | √  | √  | √                          | √  | √  |    | √               | √  |    |    | √   |    |    |    |
|  | 317PC                | Pharmacology           | <b>Basic</b>      | √   | √  | √  |    | √                          | √  | √  |    | √               | √  | √  |    | √   | √  | √  | √  |
|  | 318CM                | Community Dentistry    | <b>Basic</b>      | √   | √  | √  |    | √                          | √  | √  |    | √               | √  | √  |    | √   | √  | √  | √  |
|  | 319CV                | Conservative dentistry | <b>Basic</b>      | √   | √  |    |    | √                          | √  |    |    | √               | √  |    |    | √   |    |    |    |
|  | 320RL                | Dental Radiology       | <b>Basic</b>      | √   | √  | √  | √  | √                          | √  | √  |    | √               |    |    |    | √   |    |    |    |
|  | 321PA                | General Pathology      | <b>Basic</b>      | √   | √  | √  |    | √                          | √  | √  |    | √               |    |    |    | √   |    |    |    |
|  | 322OS                | Oral Surgery           | <b>Basic</b>      | √   | √  | √  |    | √                          | √  | √  |    | √               |    |    |    | √   |    |    |    |
|  | 310PR                | Prosthodontics         | <b>Basic</b>      | √   |    |    |    | √                          | √  |    |    | √               | √  | √  | √  | √   |    |    |    |

| Curriculum Skills Chart  |                      |                        |                   |   |    |    |    |                            |    |    |    |                 |    |    |    |   |    |    |    |
|--|----------------------|------------------------|-------------------|---|----|----|----|----------------------------|----|----|----|-----------------|----|----|----|---|----|----|----|
| Please indicate the boxes corresponding to the individual learning outcomes from the academic course being evaluated |                      |                        |                   |   |    |    |    |                            |    |    |    |                 |    |    |    |   |    |    |    |
|  |                      |                        |                   | Required learning outcomes from the academic course |    |    |    |                            |    |    |    |                 |    |    |    |   |    |    |    |
| Year \Level  | Academic Course Code | Academic Course Name   | Basic or Optional | Knowledge and understanding                         |    |    |    | Programme Skill Objectives |    |    |    | Thinking Skills |    |    |    | General and gained skills (or) other skills related to employability and personal development |    |    |    |
|  |                      |                        |                   | A1  | A2 | A3 | A4 | B1                         | B2 | B3 | B4 | C1              | C2 | C3 | C4 | D1  | D2 | D3 | D4 |
| Fourth Year  | 423GM                | General Medicine       | Basic             | √   | √  | √  |    | √                          | √  |    |    | √               |    |    |    | √   |    |    |    |
|  | 424GS                | General Surgery        | Basic             | √   | √  | √  |    | √                          | √  |    |    | √               |    |    |    | √   |    |    |    |
|  | 422OS                | Oral Surgery           | Basic             | √   | √  | √  | √  | √                          | √  | √  |    | √               |    |    |    | √   |    |    |    |
|  | 419CV                | Conservative Dentistry | Basic             | √   | √  | √  |    | √                          | √  |    |    | √               | √  |    |    | √   |    |    |    |
|  | 425OP                | Oral Pathology         | Basic             | √   | √  | √  |    | √                          | √  | √  |    | √               |    |    |    | √   |    |    |    |
|  | 426OD                | Orthodontic            | Basic             | √   | √  | √  | √  | √                          |    |    |    | √               | √  |    |    | √   |    |    |    |
|  | 427PE                | Pedodontics            | Basic             | √   | √  | √  |    | √                          | √  | √  |    | √               | √  | √  |    | √   | √  | √  | √  |
|  | 428PT                | Periodontics           | Basic             | √   | √  | √  |    | √                          | √  | √  |    | √               | √  | √  |    | √   | √  | √  | √  |
|  | 410PR                | (Prosthodontics)       | Basic             | √   | √  | √  |    | √                          | √  | √  |    | √               | √  | √  | √  | √   |    |    |    |

### Curriculum Skills Chart

Please indicate the boxes corresponding to the individual learning outcomes from the academic course being evaluated

|                   |                      |                        |                   | Required learning outcomes from the academic course |    |    |    |                            |    |    |    |                 |    |    |    |   |    |    |    |
|-------------------|----------------------|------------------------|-------------------|---|----|----|----|----------------------------|----|----|----|-----------------|----|----|----|---|----|----|----|
| Year \Level       | Academic Course Code | Academic Course Name   | Basic or Optional | Knowledge and understanding                         |    |    |    | Programme Skill Objectives |    |    |    | Thinking Skills |    |    |    | General and gained skills (or) other skills related to employability and personal development |    |    |    |
|                   |                      |                        |                   | A1  | A2 | A3 | A4 | B1                         | B2 | B3 | B4 | C1              | C2 | C3 | C4 | D1  | D2 | D3 | D4 |
| <b>Fifth Year</b> | 519CV                | Conservative Dentistry | <b>Basic</b>      | √   | √  | √  | √  | √                          | √  | √  |    | √               | √  |    |    | √   |    |    |    |
|                   | 529OM                | Oral Medicine          | <b>Basic</b>      | √   | √  | √  |    | √                          | √  | √  |    | √               |    |    |    | √   |    |    |    |
|                   | 522OS                | Oral Surgery           | <b>Basic</b>      | √   | √  |    |    | √                          | √  | √  | √  | √               | √  |    |    | √   |    |    |    |
|                   | 530PAPD              | Pedodontics            | <b>Basic</b>      | √   | √  | √  |    | √                          | √  | √  |    | √               | √  | √  | √  | √   | √  | √  | √  |
|                   | 531PD                | Prevention             | <b>Basic</b>      | √   | √  | √  |    | √                          | √  | √  |    | √               | √  |    |    |   |    |    |    |
|                   | 510PR                | Prosthodontics         | <b>Basic</b>      | √   | √  | √  | √  | √                          | √  | √  | √  | √               | √  | √  | √  | √   |    |    |    |
|                   | 526OD                | Orthodontics           | <b>Basic</b>      | √   |    |    |    | √                          | √  |    |    | √               |    |    |    | √   |    |    |    |
|                   | 528PT                | Periodontics           | <b>Basic</b>      | √   | √  | √  |    | √                          | √  | √  |    | √               | √  | √  |    | √   | √  | √  | √  |





## Academic Course Description

### Review of the Performance of Higher Education Institutions (Review of the Academic Programme)

#### Academic Course Description

This academic course description provides a brief of the most important characteristics of the academic course and the learning outcomes, the student is expected to achieve, highlighting whether they have made the most advantages of the learning opportunities available and they must be linked to the description of the programme.

|   |   |
|---|---|
| <b>1. Educational Institution</b>                     | University of Baghdad                             |
| <b>2. University Department/Centre</b>                | College of dentistry                              |
| <b>3. Name/Symbol of Academic Programme</b>           | Human Anatomy101AN                                |
| <b>4. The name of the final certificate</b>           | Anatomy of a human body                           |
| <b>5. Academic Study System</b>                       | Lectures , laboratories and clinics               |
| <b>6. Semester/Year</b>                               | The first and second semesters of the first stage |
| <b>7. Number of hours for academic course (total)</b> | 30 theoretical hours and 60 practical hours       |
| <b>8. Preparation Date of this Description</b>        | 2021-2022.  |

#### **9. Aims of the Academic Programme:**

The scientific preparation of students in relation to the human anatomy, especially, regarding to the anatomy of the head, neck and its relationship to his or her precise competence as a dentist.

## 10. Programme outputs and teaching, learning and assessment methods

### A- Cognitive Objectives (Knowledge and Understanding)

- A.1 -Acquiring knowledge about human anatomy
- A.2 -Focusing on head and neck anatomy A-1- Their relationship to his/her competence as a dentist

### B- Programme Skill Objectives

- B 1-Relationship of human anatomy to student work as a dentist
- B 2-Gaining full knowledge of the organs of the human body
- B3-

### Methods of Teaching and Learning

- Lectures using (Power Point) (Data Show)
- Instructional films.
- Providing students with links and some websites to use them.
- Practical laboratory on anatomical models

### Assessment Methods

- Theoretical Examinations.
- Practical Examinations.
- Oral Examinations.
- Quiz Examinations.

### C-Thinking Skills

- C.1- Strengthening thinking skills through problem-solving learning.
- C. 2- Gaining the basic principles of the learning curriculum.
- C.3 - Developing student capacity for discussion and dialogue.
- C.4 - Encouraging students to connect knowledge of human anatomy to their work as a dentist

### Methods of Teaching and Learning

- Lectures that research and teach students about ways to confront and solve problems.
- Keep track of how students think, how they make expression, and how quickly they respond.
- Practical lessons on anatomical models.

## Assessment methods

- Theoretical examinations.
- Practical examinations.

### **D- General and gained skills (Other skills related to employability and personal development)**

- D-1- Student preparation in practice in terms of applying knowledge gained in human anatomy to their work.
- D.2- Considering problem solving.
- D.3- Education of professional ethics.
- D.4- Student skills to become a dentist capable of treating patients
- D.5- Development of student capacity to deal with multiple means to learn.

### 11. Academic Course Structure (theoretical side)

| Week | Hours | Academic Course Glossary  | Academic Course Name | Teaching Method                         | Assessment Method  |
|------|-------|---|----------------------|---|--|
| 1    | 1     | <ul style="list-style-type: none"> <li>• Introduction to Human anatomy</li> <li>• Descriptive Anatomic Terms</li> </ul> | General anatomy      | A theoretical lecture using Power Point | Short theoretical examinations and quarterly, half-year and final examinations |
| 2    | 1     | Basic Structures: Skin, Fasciae, Muscle, Joints, Ligament, Bursae   | General anatomy      | A theoretical lecture using Power Point | Short theoretical examinations and quarterly, half-year and final examinations |
| 3    | 1     | Basic Structures: Bone, Cartilage, Blood Vessels, Lymphatic System  | General anatomy      | A theoretical lecture using Power Point | Short theoretical examinations and quarterly, half-year and final examinations |
| 4    | 1     | Basic Structures: Bone, Cartilage, Blood Vessels, Lymphatic System  | General anatomy      | A theoretical lecture using Power Point | Short theoretical examinations and quarterly, half-year and final examinations |
| 5    | 1     | Basic Structures: Nervous System, Mucous Membranes, Serous Membranes  | General anatomy      | A theoretical lecture using Power Point | Short theoretical examinations and quarterly, half-year and final examinations |
| 6    | 1     | Skeletal system of the body: Skull<br>Cranial Bones:  | General anatomy      | A theoretical lecture using Power Point | Short theoretical examinations and quarterly, half-year and final examinations |
| 7    | 1     | Skeletal system of the body:<br>Skull Cranial Bones:  | General anatomy      | A theoretical lecture using Power Point | Short theoretical examinations and quarterly, half-year and final examinations |

| <b>Week</b> | <b>Hours</b> | <b>Academic Course Glossary</b>   | <b>Academic Course Name</b> | <b>Teaching Method</b>                  | <b>Assessment Method</b>   |
|-------------|--------------|---|-----------------------------|---|--|
| 8           | 1            | Skeletal system of the body: Skull:<br>Facial Bones:  | General anatomy             | A theoretical lecture using Power Point | Short theoretical examinations and quarterly, half-year and final examinations |
| 9           | 1            | Skeletal system of the body: Skull:<br>Facial Bones:  | General anatomy             | A theoretical lecture using Power Point | Short theoretical examinations and quarterly, half-year and final examinations |
| 10          | 1            | External Views of the Skull   | General anatomy             | A theoretical lecture using Power Point | Short theoretical examinations and quarterly, half-year and final examinations |
| 11          | 1            | External Views of the Skull   | General anatomy             | A theoretical lecture using Power Point | Short theoretical examinations and quarterly, half-year and final examinations |
| 12          | 1            | The Cranial Cavity <ul style="list-style-type: none"> <li>Major Foramina and Fissures locations and structures pass through</li> <li>Neonatal Skull</li> </ul>  | General anatomy             | A theoretical lecture using Power Point | Short theoretical examinations and quarterly, half-year and final examinations |
| 13          | 1            | The Cranial Cavity <ul style="list-style-type: none"> <li>Major Foramina and Fissures locations and structures pass through</li> <li>Neonatal Skull</li> </ul>  | General anatomy             | theoretical lecture using Power Point   | Short theoretical examinations and quarterly, half-year and final examinations |
| 14          | 1            | <ul style="list-style-type: none"> <li>Skeleton of the Orbital Region, Openings into the Orbital Cavity</li> <li>Skeleton of the External Nose, nasal cavity, Paranasal Sinuses</li> <li>Auditory ossicles</li> <li>Hyoid bone</li> </ul> | General anatomy             | A theoretical lecture using Power Point | Short theoretical examinations and quarterly, half-year and final examinations |

| <b>Week</b> | <b>Hours</b> | <b>Academic Course Glossary</b>   | <b>Academic Course Name</b> | <b>Teaching Method</b>                  | <b>Assessment Method</b>   |
|-------------|--------------|---|-----------------------------|---|--|
| 15          | 1            | <ul style="list-style-type: none"> <li>• Skeleton of the Orbital Region, Openings into the Orbital Cavity</li> <li>• Skeleton of the External Nose, nasal cavity, Paranasal Sinuses</li> <li>• Auditory ossicles</li> <li>• Hyoid bone</li> </ul> | General anatomy             | A theoretical lecture using Power Point | Short theoretical examinations and quarterly, half-year and final examinations |
| 16          | 1            | The Vertebral Column  | General anatomy             | A theoretical lecture using Power Point | Short theoretical examinations and quarterly, half-year and final examinations |
| 17          | 1            | The Vertebral Column  | General anatomy             | A theoretical lecture using Power Point | Short theoretical examinations and quarterly, half-year and final examinations |
| 18          | 1            | <ul style="list-style-type: none"> <li>• Structure of the Thoracic Wall</li> <li>• Joints of the Chest Wall</li> <li>• Suprapleural Membrane</li> <li>• Diaphragm</li> <li>• Surface Anatomy</li> </ul>   | General anatomy             | A theoretical lecture using Power Point | Short theoretical examinations and quarterly, half-year and final examinations |
| 19          | 1            | <ul style="list-style-type: none"> <li>• Structure of the Thoracic Wall</li> <li>• Joints of the Chest Wall</li> <li>• Suprapleural Membrane</li> <li>• Diaphragm</li> <li>• Surface Anatomy</li> </ul>   | General anatomy             | A theoretical lecture using Power Point | Short theoretical examinations and quarterly, half-year and final examinations |

| <b>Week</b> | <b>Hours</b> | <b>Academic Course Glossary</b>   | <b>Academic Course Name</b> | <b>Teaching Method</b>                  | <b>Assessment Method</b>   |
|-------------|--------------|---|-----------------------------|---|--|
| 20          | 1            | Thoracic cavity: Mediastinum, Pleurae, Trachea, Bronchi, Lungs  | General anatomy             | A theoretical lecture using Power Point | Short theoretical examinations and quarterly, half-year and final examinations |
| 21          | 1            | Thoracic cavity: Mediastinum, Pleurae, Trachea, Bronchi, Lungs  | General anatomy             | A theoretical lecture using Power Point | Short theoretical examinations and quarterly, half-year and final examinations |
| 22          | 1            | Pericardium, Heart, Large arteries, veins and nerves of thorax  | General anatomy             | A theoretical lecture using Power Point | Short theoretical examinations and quarterly, half-year and final examinations |
| 23          | 1            | Pericardium, Heart, Large arteries, veins and nerves of thorax  | General anatomy             | A theoretical lecture using Power Point | Short theoretical examinations and quarterly, half-year and final examinations |
| 24          | 1            | Pericardium, Heart, Large arteries, veins and nerves of thorax  | General anatomy             | A theoretical lecture using Power Point | Short theoretical examinations and quarterly, half-year and final examinations |
| 25          | 1            | Bones of the Shoulder (Pectoral girdle) girdles.<br>Bones of the Upper extremities.   | General anatomy             | A theoretical lecture using Power Point | Short theoretical examinations and quarterly, half-year and final examinations |
| 26          | 1            | <ul style="list-style-type: none"> <li>• Bones of the Shoulder (Pectoral girdle) girdles.</li> <li>• Bones of the upper extremities.</li> </ul> | General anatomy             | A theoretical lecture using Power Point | Short theoretical examinations and quarterly, half-year and final examinations |
| 27          | 1            | <ul style="list-style-type: none"> <li>• Bones of the Pelvic girdle.</li> <li>• Bones of the Lower extremities.</li> </ul>                      | General anatomy             | A theoretical lecture using Power Point | Short theoretical examinations and quarterly, half-year and final examinations |



| Week | Hours | Academic Course Glossary   | Academic Course Name | Teaching Method                         | Assessment Method  |
|------|-------|--|----------------------|---|--|
| 28   | 1     | <ul style="list-style-type: none"> <li>Bones of the pelvic girdle.</li> <li>Bones of the lower extremities.</li> </ul> | General anatomy      | A theoretical lecture using Power Point | Short theoretical examinations and quarterly, half-year and final examinations |
| 29   | 1     | Abdominal cavity and organ   | General anatomy      | A theoretical lecture using Power Point | Short theoretical examinations and quarterly, half-year and final examinations |
| 30   | 1     | Abdominal cavity and organ   | General anatomy      | A theoretical lecture using Power Point | Short theoretical examinations and quarterly, half-year and final examinations |

### 11. Academic Course Structure (practical side)

| Week | Hours | Academic Course Glossary  | Academic Course Name | Teaching Method   | Assessment Method  |
|------|-------|---|----------------------|---|--|
| 1    | 2     | <ul style="list-style-type: none"> <li>Introduction to human anatomy</li> <li>Descriptive Anatomic Terms</li> </ul> | General anatomy      | Use anatomical models as well as display video lectures | Quarterly, half-year and final practical and oral examinations |
| 2    | 2     | Basic Structures: Skin, Fasciae, Muscle, Joints, Ligament, Bursae   | General anatomy      | Use anatomical models as well as display video lectures | Quarterly, half-year and final practical and oral examinations |
| 3    | 2     | Basic Structures: Bone, Cartilage, Blood Vessels, Lymphatic System  | General anatomy      | Use anatomical models as well as display video lectures | Quarterly, half-year and final practical and oral examinations |
| 4    | 2     | Basic Structures: Bone, Cartilage, Blood Vessels, Lymphatic System  | General anatomy      | Use anatomical models as well as display video lectures | Quarterly, half-year and final practical and oral examinations |
| 5    | 2     | Basic Structures: Nervous System, Mucous Membranes,   | General anatomy      | Use anatomical models as well as display video lectures | Quarterly, half-year and final practical and oral examinations |

| <b>Week</b> | <b>Hours</b> | <b>Academic Course Glossary</b>  | <b>Academic Course Name</b> | <b>Teaching Method</b>                                  | <b>Assessment Method</b>                                       |
|-------------|--------------|--|-----------------------------|---|--|
| 6           | 2            | Skeletal system of the body:<br>Skull: Cranial Bones   | General anatomy             | Use anatomical models as well as display video lectures | Quarterly, half-year and final practical and oral examinations |
| 7           | 2            | Skeletal system of the body:<br>Skull: Cranial Bones   | General anatomy             | Use anatomical models as well as display video lectures | Quarterly, half-year and final practical and oral examinations |
| 8           | 2            | Skeletal system of the body:<br>Skull: Facial Bones  | General anatomy             | Use anatomical models as well as display video lectures | Quarterly, half-year and final practical and oral examinations |
| 9           | 2            | Skeletal system of the body:<br>Skull: Facial Bones  | General anatomy             | Use anatomical models as well as display video lectures | Quarterly, half-year and final practical and oral examinations |
| 10          | 2            | External Views of the Skull  | General anatomy             | Use anatomical models as well as display video lectures | Quarterly, half-year and final practical and oral examinations |
| 11          | 2            | External Views of the Skull  | General anatomy             | Use anatomical models as well as display video lectures | Quarterly, half-year and final practical and oral examinations |
| 12          | 2            | <ul style="list-style-type: none"> <li>• The Cranial Cavity.</li> <li>• Major foramina and fissures locations and structures pass through</li> <li>• Neonatal Skull</li> </ul> | General anatomy             | Use anatomical models as well as display video lectures | Quarterly, half-year and final practical and oral examinations |
| 13          | 2            | <ul style="list-style-type: none"> <li>• The Cranial Cavity.</li> <li>• Major foramina and fissures locations and structures pass through</li> <li>• Neonatal Skull</li> </ul> | General anatomy             | Use anatomical models as well as display video lectures | Quarterly, half-year and final practical and oral examinations |

| <b>Week</b> | <b>Hours</b> | <b>Academic Course Glossary</b>  | <b>Academic Course Name</b> | <b>Teaching Method</b>                                  | <b>Assessment Method</b>                                       |
|-------------|--------------|--|-----------------------------|---|--|
| 14          | 2            | <ul style="list-style-type: none"> <li>• Skeleton of the Orbital Region, Openings into the Orbital Cavity.</li> <li>• Skeleton of the External Nose, nasal cavity, Paranasal Sinuses.</li> <li>• Auditory ossicles.</li> <li>• Hyoid bone</li> </ul> | General anatomy             | Use anatomical models as well as display video lectures | Quarterly, half-year and final practical and oral examinations |
| 15          | 2            | <ul style="list-style-type: none"> <li>• Skeleton of the Orbital Region, Openings into the Orbital Cavity.</li> <li>• Skeleton of the External Nose, nasal cavity, Paranasal Sinuses.</li> <li>• Auditory ossicles.</li> <li>• Hyoid bone</li> </ul> | General anatomy             | Use anatomical models as well as display video lectures | Quarterly, half-year and final practical and oral examinations |
| 16          | 2            | The Vertebral Column   | General anatomy             | Use anatomical models as well as display video lectures | Quarterly, half-year and final practical and oral examinations |
| 17          | 2            | The Vertebral Column   | General anatomy             | Use anatomical models as well as display video lectures | Quarterly, half-year and final practical and oral examinations |
| 18          | 2            | <ul style="list-style-type: none"> <li>• Structure of the Thoracic Wall.</li> <li>• Joints of the Chest Wall.</li> <li>• Suprapleural Membrane.</li> <li>• Diaphragm.</li> <li>• Surface Anatomy</li> </ul>  | General anatomy             | Use anatomical models as well as display video lectures | Quarterly, half-year and final practical and oral examinations |

| Week | Hours | Academic Course Glossary  | Academic Course Name | Teaching Method   | Assessment Method  |
|------|-------|---|----------------------|---|--|
| 19   | 2     | <ul style="list-style-type: none"> <li>• Structure of the Thoracic Wall.</li> <li>• Joints of the Chest Wall.</li> <li>• Suprapleural Membrane.</li> <li>• Diaphragm.</li> <li>• Surface Anatomy</li> </ul> | General anatomy      | Use anatomical models as well as display video lectures | Quarterly, half-year and final practical and oral examinations |
| 20   | 2     | Thoracic cavity: Mediastinum, Pleurae, Trachea, Bronchi, Lungs  | General anatomy      | Use anatomical models as well as display video lectures | Quarterly, half-year and final practical and oral examinations |
| 21   | 2     | Thoracic cavity: Mediastinum, Pleurae, Trachea, Bronchi, Lungs  | General anatomy      | Use anatomical models as well as display video lectures | Quarterly, half-year and final practical and oral examinations |
| 22   | 2     | Pericardium, heart, large arteries, veins and nerves of thorax  | General anatomy      | Use anatomical models as well as display video lectures | Quarterly, half-year and final practical and oral examinations |
| 23   | 2     | Pericardium, heart, large arteries, veins and nerves of thorax  | General anatomy      | Use anatomical models as well as display video lectures | Quarterly, half-year and final practical and oral examinations |
| 24   | 2     | Pericardium, heart, large arteries, veins and nerves of thorax  | General anatomy      | Use anatomical models as well as display video lectures | Quarterly, half-year and final practical and oral examinations |
| 25   | 2     | Bones of the Shoulder (Pectoral girdle) girdles.<br>Bones of the Upper extremities  | General anatomy      | Use anatomical models as well as display video lectures | Quarterly, half-year and final practical and oral examinations |
| 26   | 2     | Bones of the Shoulder (Pectoral girdle) girdles.<br>Bones of the Upper extremities  | General anatomy      | Use anatomical models as well as display video lectures | Quarterly, half-year and final practical and oral examinations |

| Week | Hours | Academic Course Glossary   | Academic Course Name | Teaching Method   | Assessment Method  |
|------|-------|--|----------------------|---|--|
| 27   | 2     | <ul style="list-style-type: none"> <li>• Bones of the Pelvic girdles.</li> <li>• Bones of the Lower extremities</li> </ul> | General anatomy      | Use anatomical models as well as display video lectures | Quarterly, half-year and final practical and oral examinations |
| 28   | 2     | <ul style="list-style-type: none"> <li>• Bones of the Pelvic girdles.</li> <li>• Bones of the Lower extremities</li> </ul> | General anatomy      | Use anatomical models as well as display video lectures | Quarterly, half-year and final practical and oral examinations |
| 29   | 2     | Abdominal cavity and organ   | General anatomy      | Use anatomical models as well as display video lectures | Quarterly, half-year and final practical and oral examinations |
| 30   | 2     | Abdominal cavity and organ   | General anatomy      | Use anatomical models as well as display video lectures | Quarterly, half-year and final practical and oral examinations |

## 12. Infrastructure

|   |   |
|---|---|
| 1- Books required reading   | <ul style="list-style-type: none"> <li>• Snell's Clinical anatomy 7<sup>th</sup> edition.</li> <li>• Netter's head and neck anatomy for dentistry 2<sup>nd</sup> edition 2012.</li> </ul>   |
| 2- Main reference sources<br>a- - Recommended books and references (scientific journals, reports...). |   |
| b-Electronic references, Internet sites...  | The faculty website   |
| 13. The development of the curriculum plan  | 1-Development of academic content by deletion, addition and replacement.<br>2-Using modern methods of teaching appropriate to the level of learners from time to time.<br>3-Updating the assessment methods and measuring the level of students.<br>4- Encouraging e-learning.<br>5-Providing the student with the skills required by the dental profession and the changes of the times. |

*Laboratory sessions*

| No. | Title of the sessions   | Hours |
|-----|---|-------|
| 1   | <ul style="list-style-type: none"> <li>• Introduction to Human Anatomy</li> <li>• Descriptive Anatomic Terms</li> </ul>   | 2     |
| 2   | Basic Structures: Skin, Fasciae, Muscle, Joints, Ligament, Bursae   | 2     |
| 3   | Basic Structures: Bone, Cartilage, Blood Vessels, Lymphatic System  | 2     |
| 4   | Basic Structures: Bone, Cartilage, Blood Vessels, Lymphatic System  | 2     |
| 5   | Basic Structures: Nervous System, Mucous Membranes, Serous Membranes  | 2     |
| 6   | Skeletal system of the body: Skull: Cranial Bones   | 2     |
| 7   | Skeletal system of the body: Skull: Cranial Bones   | 2     |
| 8   | Skeletal system of the body: Skull: Facial Bones  | 2     |
| 9   | Skeletal system of the body: Skull: Facial Bones  | 2     |
| 10  | External Views of the Skull   | 2     |
| 11  | External Views of the Skull   | 2     |
| 12  | <ul style="list-style-type: none"> <li>• The Cranial Cavity</li> <li>• Major Foramina and Fissures locations and structures pass through</li> <li>• Neonatal Skull</li> </ul>   | 2     |
| 13  | <ul style="list-style-type: none"> <li>• The Cranial Cavity</li> <li>• Major Foramina and Fissures locations and structures pass through.</li> <li>• Neonatal Skull</li> </ul>  | 2     |
| 14  | <ul style="list-style-type: none"> <li>• Skeleton of the Orbital Region, Openings into the Orbital Cavity</li> <li>• Skeleton of the External Nose, nasal cavity, Paranasal Sinuses</li> <li>• Auditory ossicles Hyoid bone</li> </ul>            | 2     |
| 15  | <ul style="list-style-type: none"> <li>• Skeleton of the Orbital Region, Openings into the Orbital Cavity</li> <li>• Skeleton of the External Nose, nasal cavity, Paranasal Sinuses</li> <li>• Auditory ossicles</li> <li>• Hyoid bone</li> </ul> | 2     |
| 16  | The Vertebral Column  | 2     |
| 17  | The Vertebral Column  | 2     |
| 18  | <ul style="list-style-type: none"> <li>• Structure of the Thoracic Wall</li> <li>• Joints of the Chest Wall</li> <li>• Suprapleural Membrane</li> <li>• Diaphragm</li> <li>• Surface Anatomy</li> </ul>   | 2     |

| No.          | Title of the sessions   | Hours     |
|--------------|---|-----------|
| 19           | <ul style="list-style-type: none"> <li>• Structure of the Thoracic Wall</li> <li>• Joints of the Chest Wall</li> <li>• Suprapleural Membrane</li> <li>• Diaphragm</li> <li>• Surface Anatomy</li> </ul> | 2         |
| 20           | Thoracic cavity: Mediastinum, Pleurae, Trachea, Bronchi, Lungs  | 2         |
| 21           | Thoracic cavity: Mediastinum, Pleurae, Trachea, Bronchi, Lungs  | 2         |
| 22           | Pericardium, Heart, Large arteries, veins and nerves of thorax  | 2         |
| 23           | Pericardium, Heart, Large arteries, veins and nerves of thorax  | 2         |
| 24           | Pericardium, Heart, Large arteries, veins and nerves of thorax  | 2         |
| 25           | <ul style="list-style-type: none"> <li>• Bones of the Shoulder (Pectoral girdle) girdles</li> <li>• Bones of the Upper extremities</li> </ul>   | 2         |
| 26           | <ul style="list-style-type: none"> <li>• Bones of the Shoulder (Pectoral girdle) girdles</li> <li>• Bones of the Upper extremities</li> </ul>   | 2         |
| 27           | <ul style="list-style-type: none"> <li>• Bones of the Pelvic girdle</li> <li>• Bones of the Lower extremities</li> </ul>  | 2         |
| 28           | <ul style="list-style-type: none"> <li>• Bones of the Pelvic girdle</li> <li>• Bones of the Lower extremities</li> </ul>  | 2         |
| 29           | Abdominal cavity and organs   | 2         |
| 30           | Abdominal cavity and organs   | 2         |
| <b>Total</b> |   | <b>60</b> |

|  |   |
|--|---|
| <b>1. Educational Institution</b>              | University of Baghdad                             |
| <b>2. University Department/Centre</b>         | College of Dentistry                              |
| <b>3. Name of Academic Programme/ Code</b>     | Medical Terminology / 102MT                       |
| <b>4. Programme included</b>                   | Medical Terminology                               |
| <b>5. Academic Study System</b>                | Lectures  |
| <b>6. Semester/Year</b>                        | The first and second semesters of the first stage |
| <b>7. Hours of Study (total)</b>               | 30 theoretical hours                              |
| <b>8. Preparation Date of this Description</b> | 2022-2021.  |





## 9.Aims of the Academic Programme

The scientific preparation of the students in relation to the medical terminology, for their study to be able to use and understand all medical terms as dentists.

## 10. Programme outputs and teaching, learning and assessment methods

### A. Cognitive Objectives (Knowledge and Understanding)

- A.1 - Gaining knowledge of medical terminology
- A.2 - Focusing on the terms used during the years of study
- A.1 - Focusing on the terms used in dentistry.

### B. Programme Skill Objectives

- B.1 - Be able to speak in the language of dentists using their own terms.
- B.2 – Gaining full knowledge of the medical terminology of dentistry.
- B.3 -

### Methods of teaching and learning

- Academic Course using lectures (data show) (power point)
- Providing students with some websites to use them.

### Assessment methods

- Theoretical exams.
- Oral examinations.
- Quiz examinations.

### C-Thinking Skills

- C.1 - Strengthening thinking skills through problem-solving learning.
- C.2 - Gaining the basic principles of the learning curriculum.
- C.3 - Developing student capacity for discussions and dialogues.
- C.4 - Encouraging students to connect knowledge of medical terminology to their work as dentists.

**Methods of teaching and learning**

- Lectures that research and teach students about ways to confront and solve problems.
- Keep track of how students think, how they make expression, and how quickly they respond

**Assessment methods**

- Theoretical exams.

D- General and gained skills (Other skills related to employability and personal development).

D1—practically preparing the students for applying knowledge gained in medical terminology in their work.

D2—considering solving problems.

D3 —teaching professional ethics.

D4— Students gained skills to become dentists capable of treating patients.

D9—developing students capacity to work with multiple learning means and tools.

| 11. Course Structure (theoretical side) |       |   |  |  |   |
|---|-------|---|--|--|---|
| Week                                    | Hours | Academic Course Vocabularies  | Module/Academic Course name or subject | Teaching Method                        | Assessment Method                                       |
| 1                                       | 1     | <ul style="list-style-type: none"> <li>Define language, Medicine, Dentistry, and a term.</li> <li>Basic Elements of a Medical Word.</li> <li>Define the terms word root, combining vowel, combining form, prefix, and suffix.               <ol style="list-style-type: none"> <li>State the rules for construction of the medical words. Roots of medical and dental words.</li> <li>Suffixes: Dental, Surgical, Diagnostic, etc.</li> <li>Suffixes: Adjective, and Noun.</li> <li>Suffixes: Singular versus Plural.</li> <li>Prefixes: Adjective Metric, Numbers, Positions, Time, Directions and Colours</li> </ol> </li> <li>Divide medical words into their component parts.</li> </ul> <p>Use multiple words' roots in a compound word.</p> | Medical Terminology                    | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 2                                       | 1     |   | Medical Terminology                    | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 3                                       | 1     | <ul style="list-style-type: none"> <li>Revision of listing and defining important prefixes that deal with, numbers, colours, positions, and directions.</li> <li>Learn standard medical and dental terms: Direction of movement, position, and anatomical posture, and planes.</li> </ul> <p>Define, spell, and pronounce medical terms used in this lecture.</p>   | Medical Terminology                    | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 4                                       | 1     |   | Medical Terminology                    | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |

| Week | Hours | Academic Course Vocabularies  | Module/ Academic Course name or subject | Teaching Method                        | Assessment Method                                       |
|------|-------|---|---|--|---|
| 5    | 1     | <ul style="list-style-type: none"> <li>• Body structure and organization</li> <li>• Name and elements of the body systems:<br/>Cells, tissues, organs, and systems.</li> <li>• Commonly used anatomical descriptive and directional terms, planes and regions.</li> </ul> Spell, define, and pronounce new terms in this lecture. | Medical Terminology                     | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 6    | 1     |   | Medical Terminology                     | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 7    | 1     | <b>The Integumentary system</b> <ul style="list-style-type: none"> <li>• Definition and parts of this system</li> <li>• Function and disorders.</li> </ul> Spell, pronounce, and explain important common terms in this system.   | Medical Terminology                     | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 8    | 1     | <b>Gastrointestinal System</b> <ul style="list-style-type: none"> <li>• Definition and parts of this system.</li> <li>• Function and disorders.</li> </ul> Spell, pronounce, and explain important common terms in this system.   | Medical Terminology                     | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 9    | 1     |   | Medical Terminology                     | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 10   | 1     | <b>Oral and Dental Terminology</b> <ul style="list-style-type: none"> <li>• Definition.</li> <li>• Main Branches of Dentistry</li> <li>• Teeth surfaces.</li> <li>• Common conditions that affect the oral cavity.</li> </ul> Spell, pronounce, and explain important terms related to each branch in dentistry                   | Medical Terminology                     | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 11   | 1     |   | Medical Terminology                     | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 12   | 1     |   | Medical Terminology                     | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |

| Week | Hours | Academic Course Vocabularies   | Module/Academic Course name or subject | Teaching Method                        | Assessment Method                                       |
|------|-------|--|--|--|---|
| 13   | 1     |  | Medical Terminology                    | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 14   | 1     |  | Medical Terminology                    | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 15   | 1     | <b>CARDIOVASCULAR SYSTEM</b> <ul style="list-style-type: none"> <li>• Definition and parts of this system.</li> <li>• Function and disorders.</li> </ul> Spell, pronounce, and explain important common terms in this system.            | Medical Terminology                    | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 16   | 1     | <b>Blood, Lymph, and Immune Systems</b> <ul style="list-style-type: none"> <li>• Definition and parts of this system.</li> <li>• Function and disorders.</li> </ul> Spell, pronounce, and explain important common terms in this system. | Medical Terminology                    | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 17   | 1     | Spell, pronounce, and explain important common terms in this system.   | Medical Terminology                    | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 18   | 1     | <b>THE RESPIRATORY SYSTEM</b> <ul style="list-style-type: none"> <li>• Definition and parts of this system.</li> <li>• Function and disorders.</li> </ul> Spell, pronounce, and explain important common terms in this system.           | Medical Terminology                    | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |

| Week | Hours | Academic Course Vocabularies   | Module/Academic Course name or subject | Teaching Method                        | Assessment Method                                       |
|------|-------|--|--|--|---|
| 19   | 1     | <b>Skeletal system</b>   | Medical Terminology                    | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 20   | 1     | <ul style="list-style-type: none"> <li>• Definition and parts of this system.</li> <li>• Function and disorders.</li> </ul> Spell, pronounce, and explain important common terms in this system.                                       | Medical Terminology                    | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 21   | 1     | <b>Muscular system</b>   | Medical Terminology                    | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 22   | 1     | <ul style="list-style-type: none"> <li>• Definition and parts of this system.</li> <li>• Function and disorders.</li> </ul> Spell, pronounce, and explain important common terms in this system.                                       | Medical Terminology                    | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 23   | 1     | <b>Nervous system</b> <ul style="list-style-type: none"> <li>• Definition and parts of this system.</li> <li>• Function and disorders.</li> <li>• Spell, pronounce, and explain important common terms in this system.</li> </ul>      | Medical Terminology                    | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 24   | 1     | <b>Genitourinary System</b> <ul style="list-style-type: none"> <li>• Definition and parts of this system.</li> <li>• Function and disorders.</li> <li>• Spell, pronounce, and explain important common terms in this system</li> </ul> | Medical Terminology                    | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |

| Week | Hours | Academic Course Vocabularies  | Module/Academic Course name or subject | Teaching Method                        | Assessment Method                                       |
|------|-------|---|--|--|---|
| 25   | 1     | <b>Endocrine System</b> <ul style="list-style-type: none"> <li>• Definition and parts of this system.</li> <li>• Function and disorders.</li> </ul> Spell, pronounce, and explain important common terms in this system.  | Medical Terminology                    | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 26   | 1     | Special Senses (Taste, touch, smell, sight, and hearing) <ul style="list-style-type: none"> <li>• Definition and parts of each special sense.</li> <li>• Function and disorders.</li> </ul> Spell, pronounce, and explain important common terms in the current lectures. | Medical Terminology                    | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 27   | 1     |   | Medical Terminology                    | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 28   | 1     |   | Medical Terminology                    | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 29   | 1     |   | Medical Terminology                    | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 30   | 1     |   | Medical Terminology                    | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |

## 12. Infrastructure

|   |  |
|---|--|
| 1- Books required reading   |  |
| 2- Main reference sources<br>b- - Recommended books and references (scientific journals, reports...). |  |
| b-Electronic references, Internet sites...  | The faculty website  |
| 13. The development of the curriculum plan  | 1-Development of academic content by deletion, addition and replacement.<br>2-Using modern methods of teaching appropriate to the level of learners from time to time.<br>3-Updating the assessment methods and measuring the level of students.<br>4- Encouraging e-learning. |

5-Providing the student with the skills required by the dental profession and the changes of the times.



|   |   |
|---|---|
| 1. <b>Educational Institution</b>   | University of Baghdad                             |
| 2. <b>University Department \ Centre</b>  | College of Dentistry                              |
| 3. <b>Name/Code of the Academic Course</b>  | Computer Sciences /103CS                          |
| 4. <b>The name of the final certificate</b>   | Computer Sciences                                 |
| 5. <b>Available Academic Courses</b>  | Laboratories                                      |
| 6. <b>Academic Study System</b>   | The first and second semesters of the first stage |
| 7. <b>Number of hours (total)</b>   | 60 practical hours                                |
| 8. <b>Preparation Date of this Description</b>  | 2021-2022.  |
| <b>9. Objectives of the Academic Programme:</b><br>Introduction into computer science and students learn the performance of computers, supported methods, software and learn using computers in the medical field |   |

|   |
|---|
| <b>10. Programme outputs and teaching, learning and assessment methods</b>  |
| <b>A. <u>Cognitive Objectives (Knowledge and Understanding)</u></b><br>A.1- Teaching the students ways to use the computer<br>A.2- How to use the software applications |
| <b>B. <u>Programme Skill Objectives</u></b><br>B.1- Teaching students the functions of computer use<br>B.2- Using Medical computer                                      |

### **Methods of Teaching and Learning**

- Educational methods include uses of computers
- Guidance of students on some websites to use them.

### **Assessment Methods**

- Practical examinations
- Short examinations.

### **C-Thinking Skills**

C.1- Enhance thinking skills through problem-solving learning.

C.2 - Gaining the basic principles of the learning curriculum.

C.3 - Developing student capacity for discussion and dialogue.

C.4 - Encouraging students to connect the use of computers and technology to their work of dentists.

### **Methods of Teaching and Learning**

- Lectures that assess student research and instruction on ways to confront and solve problems
- Following up the way the students think, how they make expression and how quickly they respond and react.

### **Assessment Methods**

- Practical examinations

### **D. General and gained skills (Other skills related to employability and personal development).**

D.1 - Students are practically prepared in terms of applying the use of the computer in their work.

D.2 - Considering problem solving.

D.3 – Gaining professional ethics.

D.4 – Skills acquisition of students to become experienced in using information technology. D.5

- Developing student capacity to work with multiple learning tools and means.

### 11. Academic Course structure

| week | hours | Academic course name | Theoretical contents  | Teaching method                        | Assessment method                           |
|------|-------|----------------------|---|--|---|
| ١    | ١     | computer             | <b>Introduction about computer /Hardware and Software/computer structure/ Floppy magnetic disks</b>       | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٢    | ١     | computer             | <b>E-learning</b>   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٣    | ١     | computer             | <b>Introduction to E-learning Google Classroom Platform Google drive</b>                                  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٤    | 1     | computer             | <b>Google forms</b>   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٥    | ١     | computer             | <b>Online conferencing</b>  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٦    | ١     | computer             | <b>Introduction about Windows /A look at Windows 10/Stating Windows 10/Working with a windows Program</b> | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٧    |       | computer             | <b>Working with files and folders/ Using My computer</b>  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |

|    |   |          |   |  |   |
|----|---|----------|---|--|---|
| ٨  | ١ | computer | <b>Working with Taskbar and Desktop</b>   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٩  | ١ | computer | <b>Using Windows Accessories</b>  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ١٠ | ١ | computer | <b>A look at Control Panel</b>  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ١١ | ١ | computer | <b>Windows Explorer</b>   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ١٢ | ١ | computer | <b>Libraries</b>  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ١٣ | ١ | computer | <b>Introduction about Microsoft Word2016</b><br><b>A look at Microsoft Word /Editing Document</b> | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ١٤ | ١ | computer | <b>Formatting Text/</b>   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ١٥ | ١ | computer | <b>Formatting paragraphs</b>  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ١٦ | ١ | computer | <b>Proofing documents</b>   | A theoretical                          | Short, quarterly,                           |

|    |   |          |  |  |   |
|----|---|----------|--|--|---|
|    |   |          |  | lesson using Power Point               | half-year and final exams                   |
| ١٧ | ١ | computer | <b>Adding Tables</b>   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ١٨ | ١ | computer | <b>Inserting Graphic Elements</b>                                      | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ١٩ | ١ | computer | <b>Controlling page Appearance</b>                                     | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٢٠ | ١ | computer | <b>Introduction about Excels /A Look at Microsoft Excel</b>            | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٢١ | ١ | computer | <b>Modifying A Worksheet /performing Calculations</b>                  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٢٢ | 1 | computer | <b>Formatting a worksheet/ Developing a work book</b>                  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٢٣ | 1 | computer | <b>Printing Workbook Contents/Customizing Layout</b>                   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٢٤ | 1 | computer | <b>Introduction about Microsoft Access/ A look at Microsoft Access</b> | A theoretical lesson using             | Short, quarterly, half-year and             |

|    |   |          |  |  |   |
|----|---|----------|--|--|---|
|    |   |          |  | Power Point                            | final exams                                 |
| ٢٥ | 1 | computer | <b>Creating Data tables /properties of the fields</b>                    | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٢٦ | 1 | computer | <b>Querying the database/Designing Forms/Producing reports</b>           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٢٧ | 1 | computer | <b>Introduction about Microsoft Power point/starting power point2016</b> | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٢٨ | 1 | computer | <b>Formatting text/Using graphics and Text</b>                           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٢٩ | 1 | computer | <b>Manipulating the slides/Using Multimedia Elements</b>                 | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٣٠ | 1 | computer | <b>Power point Management</b>  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |

**11. Academic Course structure(practical side)**

| week | hours | Academic course name | contents   | Teaching method       | Assessment method      |
|------|-------|----------------------|--|-----------------------|------------------------|
| ١    | 2     | computer             | <b>Introduction about compute /Hardware and Software/computer structure/ Floppy magnetic disks</b>   | Computer laboratories | Practical examinations |
| ٢    | 2     | computer             | <b>Operating systems/CD-ROM/</b>   | Computer laboratories | Practical examinations |
| ٣    | 2     | computer             | <b>Create Files &amp;Folders High level programming language /Constant and variable/Library Function /Arithmetic expression/Type of Monitor /Number of systems</b> | Computer laboratories | Practical examinations |
| ٤    | 2     | computer             | <b>Introduction about MS-DOS Operating systems/DOS drive /Key-Board</b>  | Computer laboratories | Practical examinations |
| ٥    | 2     | computer             | <b>DOS commands /Internal Commands/External Commands</b>   | Computer laboratories | Practical examinations |
| ٦    | 2     | computer             | <b>Introduction about Windows /A look at Windows 10/Stating Windows 10/Working with a windows Program</b>  | Computer laboratories | Practical examinations |
| ٧    | 2     | computer             | <b>Working with files and folders/ Using My computer</b>   | Computer laboratories | Practical examinations |
| ٨    | 2     | computer             | <b>Working with Taskbar and Desktop Using Windows Accessories</b>  | Computer laboratories | Practical examinations |
| ٩    | 2     | computer             | <b>Using Windows Accessories</b>   | Computer laboratories | Practical examinations |
| ١٠   | 2     | computer             | <b>A look at Control Panel</b>   | Computer laboratories | Practical examinations |
| ١١   | 2     | computer             | <b>Widows Explorer</b>   | Computer laboratories | Practical examinations |
| ١٢   | 2     | computer             | <b>libraries</b>   | Computer laboratories | Practical examinations |
| ١٣   | 2     | computer             | <b>Introduction about Microsoft Word A look at Microsoft Word /Editing Document</b>  | Computer laboratories | Practical examinations |

|    |   |          |  |                       |                        |
|----|---|----------|--|-----------------------|------------------------|
| ١٤ | 2 | computer | <b>Formatting Text/</b>  | Computer laboratories | Practical examinations |
| ١٥ | 2 | computer | <b>Formatting paragraphs</b>   | Computer laboratories | Practical examinations |
| ١٦ | 2 | computer | <b>Proofing documents</b>  | Computer laboratories | Practical examinations |
| ١٧ | 2 | computer | <b>Adding Tables</b>   | Computer laboratories | Practical examinations |
| ١٨ | 2 | computer | <b>Inserting Graphic Elements</b>                                      | Computer laboratories | Practical examinations |
| ١٩ | 2 | computer | <b>Controlling page Appearance</b>                                     | Computer laboratories | Practical examinations |
| ٢٠ | 2 | computer | <b>Introduction about Excels /A Look at Microsoft Excel</b>            | Computer laboratories | Practical examinations |
| ٢١ | 2 | computer | <b>Modifying A Worksheet /performing Calculations</b>                  | Computer laboratories | Practical examinations |
| ٢٢ | 2 | computer | <b>Formatting a worksheet/ Developing a work book</b>                  | Computer laboratories | Practical examinations |
| ٢٣ | 2 | computer | <b>Printing Workbook Contents/Customizing Layout</b>                   | Computer laboratories | Practical examinations |
| ٢٤ | 2 | computer | <b>Introduction about Microsoft Access/ A look at Microsoft Access</b> | Computer laboratories | Practical examinations |
| ٢٥ | 2 | computer | <b>Creating Data tables /properties of the fields</b>                  | Computer laboratories | Practical examinations |
| ٢٦ | 2 | computer | <b>Querying the database/Designing Forms/Producing reports</b>         | Computer laboratories | Practical examinations |
| ٢٧ | 2 | computer | <b>Introduction about Microsoft Power point/starting power point</b>   | Computer laboratories | Practical examinations |
| ٢٨ | 2 | computer | <b>Formatting text/Using graphics and Text</b>                         | Computer laboratories | Practical examinations |
| ٢٩ | 2 | computer | <b>Manipulating the slides/Using Multimedia Elements</b>               | Computer laboratories | Practical examinations |
| ٣٠ | 2 | computer | <b>Power point Management</b>  | Computer laboratories | Practical examinations |



|   |   |
|---|---|
| <b>12. Infrastructure</b>   |   |
| 1- Books required reading   | Windows 10<br>Office 2016<br>1- Computer application in management<br>2-E-learning concepts and techniques  |
| 2- Main reference sources<br>c- - Recommended books and references (scientific journals, reports...). |   |
| b-Electronic references, Internet sites...  | The faculty website   |
| <b>13. The development of the curriculum plan</b>   | 1-Development of academic content by deletion, addition and replacement.<br>2-Using modern methods of teaching appropriate to the level of learners from time to time.<br>3-Updating the assessment methods and measuring the level of students.<br>4- Encouraging e-learning.<br>5-Providing the student with the skills required by the dental profession and the changes of the times. |

|  |   |
|--|---|
| <b>1. Educational Institution</b>  | Higher Education - College of Dentistry     |
| <b>2. University Department/Centre</b>   | College of Dentistry                        |
| <b>3. The name/code of the Academic Course</b>   | Dental Anatomy/ 104DA                       |
| <b>4. Programme included</b>   | Dental Anatomy (Dentistry)                  |
| <b>5. Available Academic Courses</b>   | 100%  |
| <b>6. Academic Course/Year</b>   | Two semesters /first stage                  |
| <b>7. Number of hours (total)</b>  | 30 theoretical hours and 60 practical hours |
| <b>8. Preparation Date of this Description</b>   | 2021-2022.                                  |
| <b>9. Aims of the Academic Programme</b>   |   |
| Providing students with a practical, integrated programme by training them a dental carving on wax moulds. |   |

|   |
|---|
| <b>10. Programme outputs and teaching, learning and assessment methods</b>  |
| <p><b>A. <u>Cognitive Objectives (Knowledge and Understanding)</u></b></p> <p>A.1- Formulating and programming information in such a way as to enable the students to understand it and to increase their knowledge regarding the theoretical and practical aspects</p> <p>A.2- Introducing the students to the anatomical model of the teeth</p> <p>A.3-</p> <p>A.4-</p> <p>A.5-</p> <p>A.6-</p> |
| <p><b>B. <u>Programme Skill Objectives</u></b></p> <p>B.1 – Providing students a dental carving training on wax moulds based on age-specific measurements</p>   |
| <b><u>Methods of Teaching and Learning</u></b>  |
| Data show, lecture, LCD, educational movies and transverse cameras.   |

**Assessment methods**

Theoretical, practical (clinical) and quiz exams

**C-Thinking Skills**

- C.1- to be able to solve problems
- C.2- to be capable of leadership
- C.3-
- C.4-

**Methods of Teaching and Learning**

Theoretical and practical lessons (stimulus and response)

**Assessment methods**

Examinations

**D. General and gained skills (other skills related to employability and personal development).**

- D.1- Student preparation in practice in terms of applying knowledge gained in dental anatomy into work
- D.2- Student development of methods of discussion and dialogue.
- D.3-
- D.4-

### 11. Academic course structure in attachments

| Week | Hours | Theoretical content   | Academic Course name | Teaching Method                        | Assessment Method                           |
|------|-------|---|----------------------|--|---|
| 1    | 2     | <b>Introduction</b><br>Nomenclature, Heterodont, Diphyodont, The Deciduous Teeth, The Permanent Teeth, Anterior and Posterior Teeth<br>The Jaw  | Dental anatomy       | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 2    | 2     | <b>Numbering Systems</b><br>1. Universal notation system.<br>2. Palmer notation system. Crown and Root<br>Dental pulp. Anatomical crown.<br>Surfaces and Ridges   | Dental anatomy       | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 3    | 2     | <b>Anatomical Landmarks</b><br>Cusp, Tubercle, Cingulum, Ridge, Fossa, Developmental groove, Pit  | Dental anatomy       | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 4    | 2     | <b>Permanent Maxillary Central Incisor</b><br>Characteristic features of incisor's crown<br>Permanent Maxillary Central Incisor Principal identifying features  | Dental anatomy       | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 5    | 2     | <b>Permanent Maxillary Lateral Incisor</b><br>Principal identifying features (Labial Aspect, Mesial Aspect, Distal Aspect, Lingual Aspect, Incisal Aspect).<br>Variations from the typical form (Anomalies)   | Dental anatomy       | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 6    | 2     | <b>Permanent Mandibular Incisors Characteristic</b><br>features of Permanent mandibular Incisors Permanent Mandibular Central Incisor Principal identifying features Permanent Mandibular Lateral Incisor Principal identifying features Some differences between maxillary and mandibular central incisors Main differences between maxillary central and lateral incisors | Dental anatomy       | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |

| Week | Hours | Theoretical content  | Academic Course name | Teaching Method                        | Assessment Method                           |
|------|-------|--|----------------------|--|---|
| 7    | 2     | <b>Permanent Canines</b><br>General Characteristic Features of the Canines<br>The Permanent Maxillary Canine<br>Principal Identifying Features<br>The Permanent Mandibular Canine<br>Principal Identifying Feature   | Dental anatomy       | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 8    | 2     | <b>Permanent Maxillary Premolars</b><br>Some characteristic features to all posterior teeth<br>Maxillary First Premolar Principal identifying features: Maxillary Second Premolar<br>Principal identifying features  | Dental anatomy       | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 9    | 2     | <b>Permanent Mandibular Premolars</b><br>Mandibular First Premolar<br>Characteristics that resemble those of the mandibular canine.<br>Characteristics that resemble those of the mandibular second premolar.<br>Principal Identifying Features                            | Dental anatomy       | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 10   | 2     | <b>Permanent Mandibular Second Premolar</b><br>Principal Identifying Features  | Dental anatomy       | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 11   | 2     | <b>Permanent Maxillary Molars</b><br>Maxillary First Molar Principal Identifying Features<br>Maxillary second Molar  | Dental anatomy       | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 12   | 2     | <b>Permanent Mandibular Molars</b><br>Mandibular First Molar Principal Identifying Features  | Dental anatomy       | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 13   | 2     | <b>Permanent Mandibular Second Molar Principal</b><br>Identifying Features Mandibular Third Molar<br>Principal Identifying Features  | Dental anatomy       | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 14   | 2     | <b>Tooth Development</b><br>Sequential Order of Deciduous Teeth According to their Eruption Times Deciduous Teeth<br>The Importance of Deciduous Teeth Maxillary Deciduous Teeth Mandibular Deciduous Teeth<br>Principal Differences between Deciduous and Permanent Teeth | Dental anatomy       | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 15   | 2     | <b>Pulp Cavities</b><br>Pulp Cavities of the Maxillary Teeth Pulp Cavities of the Mandibular Teeth   | Dental anatomy       | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |

**Laboratory sessions**

| <b>Lab. Number</b> | <b>Study Unit Title</b>  | <b>Hours</b> |
|--------------------|--|--------------|
| 1                  | Introduction to Dental Anatomy & Carving Instruments   | 2            |
| 2                  | Numbering systems.   | 2            |
| 3                  | Practical demonstration of Carving a Cube (1cm*1cm*1cm)  | 2            |
| 4                  | <ul style="list-style-type: none"><li>- Introduction to Anatomical landmarks on Teeth models.</li><li>- Carving of a cube.</li></ul> | 2            |
| 5                  | Description & Carving of the Labial Aspect of P. Max. Right Central Incisor.   | 2            |
| 6                  | Description & Carving of the Mesial aspect of P. Max. Right Central Incisor.   | 2            |
| 7                  | Description, Carving & Finishing of the Incisal Aspect of Permanent Max. Right Central Incisor.                                      | 2            |
| 8                  | Practical Training of Carving of P. Max. Right Central Incisor   | 2            |
| 9                  | Practical Exam. Of Carving of P. Max. Right Central Incisor  | 2            |
| 10                 | Description & Carving of the Labial & Mesial Aspects of P. Max. Right Canine.  | 2            |
| 11                 | Description, Carving & Finishing of the Incisal Aspect of P. Max. Right Canine.  | 2            |
| 12                 | Practical Training of Carving of P. Max. Right Canine.   | 2            |
| 13                 | Practical Exam. of Carving of P. Max. Right Canine.  | 2            |
| 14                 | Mid-Year Practical Examination of Tooth Carving.   | 2            |
| 15                 | Description & Carving of the Buccal & Mesial Aspects of P. Max. Right 1st Premolar.  | 2            |
| 16                 | Description, Carving & Finishing of the Occlusal Aspect of P. Max. Right 1st Premolar.   | 2            |
| 17                 | Practical Training of Carving of P. Max. Right 1st Premolar  | 2            |
| 18                 | Practical Exam. Of Carving of P. Max. Right 1st Premolar   | 2            |
| 19                 | Description & Carving of the Buccal & Mesial Aspects of P. Mand. Right 1st Premolar.   | 2            |
| 20                 | Description, Carving & Finishing of the Occlusal Aspect of P. Mand. Right 1st Premolar.  | 2            |
| 21                 | Practical Training of Carving of P. Mand. Right 1st Premolar   | 2            |
| 22                 | Practical Exam. Of Carving of P. Mand. Right 1st Premolar  | 2            |
| 23                 | Description & Carving of the Buccal & Mesial Aspects of P. Max. Right 1st Molar.   | 2            |
| 24                 | Description, Carving & Finishing of the Occlusal Aspect of P. Max. Right 1st Molar.  | 2            |

| Lab. Number | Study Unit Title  | Hours |
|-------------|---|-------|
| 25          | Practical Training of Carving of P. Max. Right 1st molar.   | 2     |
| 26          | Practical Exam. of Carving of P. Max. Right 1st molar.  | 2     |
| 27          | Description & Carving of the Buccal & Mesial Aspects of P. Mand. Right 1st Molar  | 2     |
| 28          | Description, Carving & Finishing of the Occlusal aspect of P. Mand 1st Molar/Practical Training of Carving P. Mand 1st molar. | 2     |
| 29          | Practical Examination of Carving of P. Mand. Right 1st molar  | 2     |
| 30          | Final Oral & Practical Examination of Tooth carving   | 2     |
| Total       |   | 60    |

| 12. Infrastructure  |   |
|---|---|
| 3- Books required reading   | 1. Wheeler's dental anatomy, physiology and occlusion, By Major M Ash. 2015<br>2. Woelfel's dental anatomy, its relevance to dentistry. By Rickne C. Scheid 7 <sup>th</sup> edition 2007  |
| 4- Main reference sources<br>d- - Recommended books and references (scientific journals, reports...). |   |
| b-Electronic references, Internet sites...  | The faculty website   |
| <b>13. The development of the curriculum plan</b>   | 1-Development of academic content by deletion, addition and replacement.<br>2-Using modern methods of teaching appropriate to the level of learners from time to time.<br>3-Updating the assessment methods and measuring the level of students.<br>4- Encouraging e-learning.<br>5-Providing the student with the skills required by the dental profession and the changes of the times. |

|  |  |
|--|--|
| <b>1. Educational Institution</b>  | Ministry of Higher Education and Scientific Research |
| <b>2. University Department \ Centre</b>   | Basic Sciences                                       |
| <b>3. The name/Code of the Academic Course</b>   | Human Rights / 105HRZD                               |
| <b>4. Programme included</b>   |  |
| <b>5. Academic Study System</b>  | Student attendance is 100% for whole academic year   |
| <b>6. Academic Course/Year</b>   | Two semesters of first stage                         |
| <b>7. Number of hours (total)</b>  | 60 theoretical hours                                 |
| <b>8. Preparation Date of this Description</b>   | 2021-2022.   |
| <b>9. Objectives of the Academic Programme</b>   |  |
| The programme provides a chance for the students to learn their rights and duties. The programme also seeks to promote The cultural education on human rights to building a cohesive society in which justice, freedom and equality are prevailed. |  |

|  |
|--|
| <b>10. Programme outputs and teaching, learning and assessment methods</b> |
| <b><u>A. Cognitive Objectives (Knowledge and Understanding)</u></b>        |
| A.1- Students learn their rights   |
| A.2- Students learn their duties to the community                          |
| A.3-   |
| A.4-   |
| A.5-   |



**B. Programme Skill Objectives**

B.1 – Students learn their rights

B.2 – Students learn their duties and commitment towards their community

B.3 -

B.4 -

**Methods of Teaching and Learning**

Lectures and seminars

**Assessment methods**

Examinations

**C-Thinking Skills**

C.1- to be able to solve problem

C.2 –having skills of leadership

C.3 -

C.4-

**Methods of Teaching and Learning**

Theoretical lectures

**Assessment methods**

Examinations

**D. General and gained skills (other skills related to engagement and personal development).**

D.1- Preparing students scientifically and culturally

D.2 –

D.3 –

D.4 -

| 11. Academic Course structure |       |   |                      |  |   |
|-------------------------------|-------|---|----------------------|--|---|
| Week                          | Hours | Theoretical content   | Academic Course name | Teaching method                        | Assessment method                           |
| 1                             | 2     | <b>Introduction/First chapter on Human Rights</b><br>First subject /Human Rights in ancient civilizations<br>First lesson/human rights in Greek and Egyptian civilizations<br>First Academic Course /Human Rights in Greek Civilization<br>Second Academic Course: Human rights in ancient Egyptian civilization<br>Second lesson/human rights in ancient civilizations | Human rights         | A theoretical Lesson using Power Point | Short, quarterly, half-year and final exams |
| 2                             | 2     | <b>Second chapter /Human rights in the law and religion</b><br>First Lesson/Human Rights in Christian and Jewish Religion<br>Second Lesson/Human Rights in Islam  | Human rights         | A theoretical Lesson using Power Point | Short, quarterly, half-year and final exams |
| 3                             | 2     | <b>Third chapter /Human rights sources</b><br>First lesson/international sources<br>First Academic Course/<br>Universal Declaration of Human Rights   | Human rights         | A theoretical Lesson using Power Point | Short, quarterly, half-year and final exams |
| 4                             | 2     | Second Academic Course/ two International Conventions on Human Rights   | Human rights         | A theoretical Lesson using Power Point | Short, quarterly, half-year and final exams |
| 5                             | 2     | Second Academic Course/ National resource<br>First lesson /Declaration of Human Rights and citizens French 26 August 1789   | Human rights         | A theoretical Lesson using Power Point | Short, quarterly, half-year and final exams |
| 6                             | 2     | Second Lesson/ French constitutions and declarations following the proclamation of rights on 1789   | Human rights         | A theoretical Lesson using Power Point | Short, quarterly, half-year and final exams |

| Week | Hours | Theoretical content   | Academic Course name | Teaching method                        | Assessment method                           |
|------|-------|---|----------------------|--|---|
| 7    | 2     | Third Academic Course/Constitution of Republic of Iraq, since 2005  | Human rights         | A theoretical Lesson using Power Point | Short, quarterly, half-year and final exams |
| 8    | 2     | Fourth Academic Course /Human Rights guarantees, first discussion/guarantees of human rights at country level<br>First lesson/constitutional rights   | Human rights         | A theoretical Lesson using Power Point | Short, quarterly, half-year and final exams |
| 9    | 2     | Second Lesson/judiciary rights  | Human rights         | A theoretical Lesson using Power Point | Short, quarterly, half-year and final exams |
| 10   | 2     | Second Academic Course/Human Rights guarantees in Islam<br>First Lesson /adoption of a dual-responsibility principle in Islamic society<br>Second Academic Course/religious rights on Islamic law   | Human rights         | A theoretical Lesson using Power Point | Short, quarterly, half-year and final exams |
| 11   | 2     | Third Academic Course/some Islamic regimes of individual and group benefits, and the jurisdiction   | Human rights         | A theoretical Lesson using Power Point | Short, quarterly, half-year and final exams |
| 12   | 2     | Third Lesson/International human rights guarantees<br>First Academic Course/Charter of the United Nations<br>Second Academic Course/General Association of the United Nations   | Human rights         | A theoretical Lesson using Power Point | Short, quarterly, half-year and final exams |
| 13   | 2     | Third Academic Course/Economic and Social Council<br>Fourth Academic Course/Council of Women's Rights   | Human rights         | A theoretical Lesson using Power Point | Short, quarterly, half-year and final exams |
| 14   | 2     | Fourth Academic Course/regional organizations role in the protection of human rights<br>First lesson/ Convention of European Human Rights   | Human rights         | A theoretical Lesson using Power Point | Short, quarterly, half-year and final exams |
| 15   | 2     | Second Lesson/United States Agreement for human rights<br>Third Lesson/African Agreement on Human and Peoples' Rights<br>Fourth Lesson/Arab Agreement for Human Rights<br><b>Fourth chapter</b> /future of Human Rights<br>First Lesson/ technological progress and its impact on rights and freedoms | Human rights         | A theoretical Lesson using Power Point | Short, quarterly, half-year and final exams |

| Week | Hours | Theoretical content   | Academic Course name | Teaching method                         | Assessment method                           |
|------|-------|---|----------------------|---|---|
| 16   | 2     | First Academic Course/political parties and human rights.<br>Second Academic Course/role of information and upbringing  | Human rights         | A theoretical lecture using Power Point | Short, quarterly, half-year and final exams |
| 17   | 2     | Second Lesson/study and human rights<br>First Academic Course/Privacy and Human Rights<br>Second Academic Course/domination and human rights  | Human rights         | A theoretical lecture using Power Point | Short, quarterly, half-year and final exams |
| 18   | 2     | First Academic Course /concept of democracy is developed by its definition and keep it away<br>First lesson/roots of the concept and development of democracy   | Human rights         | A theoretical lecture using Power Point | Short, quarterly, half-year and final exams |
| 19   | 2     | Second Academic Course/definition of democracy  | Human rights         | A theoretical lecture using Power Point | Short, quarterly, half-year and final exams |
| 20   | 2     | The third Academic Course/democracy between globalism and privacy   | Human rights         | A theoretical lecture using Power Point | Short, quarterly, half-year and final exams |
| 21   | 2     | Second Academic Course /Forms of Democracy<br>First lesson/direct democracy<br>First Academic Course/content of direct democracy<br>Second Academic Course/immediate applications of democracy<br>Third Academic Course/assessment of the direct democracy system | Human rights         | A theoretical lecture using Power Point | Short, quarterly, half-year and final exams |

| Week | Hours | Theoretical content  | Academic Course name | Teaching method                         | Assessment method                           |
|------|-------|--|----------------------|---|---|
| 22   | 2     | Second lesson/semi-direct democracy<br>First Academic Course/concept of semi-direct democracy<br>Second Academic Course/semblance of semi-direct democracy   | Human rights         | A theoretical lecture using Power Point | Short, quarterly, half-year and final exams |
| 23   | 2     | Third Lesson/recognition of the semi-direct democracy system.<br>Third lesson/representative democracy   | Human rights         | A theoretical lecture using Power Point | Short, quarterly, half-year and final exams |
| 24   | 2     | First lesson/concept and legal nature of representative system<br>Second lesson/elements of the representative system  | Human rights         | A theoretical lecture using Power Point | Short, quarterly, half-year and final exams |
| 25   | 2     | Third lesson/representative system forms   | Human rights         | A theoretical lecture using Power Point | Short, quarterly, half-year and final exams |
| 26   | 2     | Fourth lesson /Parliamentary Council<br>First Academic Course /Single Council and bicameral system<br>Second Academic Course: Internal organization of Deputies Chamber  | Human rights         | A theoretical lecture using Power Point | Short, quarterly, half-year and final exams |
| 27   | 2     | Third Academic Course /to which the representative system of the assembly:<br>Election<br>First Lesson/ election structure and its legal format<br>First Academic Course/concept of election<br>Second Academic Course /legal structure of the election<br>Second lesson/Electoral Commission<br>First Academic Course /concept of the electorate<br>Second Academic Course / electorate structure | Human rights         | A theoretical lecture using Power Point | Short, quarterly, half-year and final exams |
| 28   | 2     | Third Lesson/candidates for election<br>Third Academic Course/Organization of the election process<br>First Academic Course /Establish the electoral districts.<br>Second Academic Course /constituencies.<br>Third Academic Course/ candidates  | Human rights         | A theoretical lecture using Power Point | Short, quarterly, half-year and final exams |

| Week | Hours | Theoretical content  | Academic Course name | Teaching method                         | Assessment method                           |
|------|-------|--|----------------------|---|---|
| 29   | 2     | Fourth Academic Course/election campaign<br>Fifth Academic Course/voting<br>Fourth lesson/Organization of elections<br>Second Lesson/individual election and election by list  | Human rights         | A theoretical lecture using Power Point | Short, quarterly, half-year and final exams |
| 30   | 2     | Third lesson/majority system and proportional representation system<br>Fourth Academic Course /interest representation system<br>Fifth Academic Course/voting system selection and compulsory voting.<br>Sixth Academic Course/system of secret voting and public voting | Human rights         | A theoretical lecture using Power Point | Short, quarterly, half-year and final exams |
| 31   | 2     | Islamic Governor structure   | Human rights         | A theoretical lecture using Power Point | Short, quarterly, half-year and final exams |
| 32   | 2     | Water management   | Human rights         | A theoretical lecture using Power Point | Short, quarterly, half-year and final exams |
| 33   | 2     | The addiction phenomenon and its effects in society  | Human rights         | A theoretical lecture using Power Point | Short, quarterly, half-year and final exams |

|   |   |
|---|---|
| <b>12. Infrastructure</b>   |   |
| 5- Books required reading   | - Human and Children's Rights and Democracy is a group of Publications of the Ministry of Education, High and Scientific Re-search for the year 2009<br>- Dr. Riad Aziz Hadi/ Human Rights developed by its contents published in 2005<br>- Dr. Mohamed Abed Al Jabri: Democracy and Human Rights, 1994<br>Dr .Wahid Abdul Majid Al-Dem in the Arab World |
| 6- Main reference sources<br>e- - Recommended books and references (scientific journals, reports...). |   |
| b-Electronic references, Internet sites...  | The faculty website   |
| <b>13. The development of the curriculum plan</b>   | 1-Development of academic content by deletion, addition and replacement.<br>2-Using modern methods of teaching appropriate to the level of learners from time to time.<br>3-Updating the assessment methods and measuring the level of students.4- Encouraging e-learning.  |

5-Providing the student with the skills required by the dental profession and the changes of the times.

|   |  |
|---|--|
| <b>1. Educational Institution</b>                 | Higher Education and Scientific Research |
| <b>2. University Department \ Centre</b>          | Basic Science Branch                     |
| <b>3. The name/code of the Academic Programme</b> | Medical Chemistry/ CH 106                |
| <b>4. Programme included</b>                      | Medical Chemistry and Human Health       |

|  |   |
|--|---|
| <b>5. Approved Accreditation Programme</b>     | Lessons and laboratories                    |
| <b>6. Academic Programme/year</b>              | Two semesters of the first stage            |
| <b>7. Number of hours (total)</b>              | 60 theoretical hours and 60 practical hours |
| <b>8. Preparation Date of this Description</b> | 2021-2022-.                                 |

|  |   |
|--|---|
| <b>9. Aims of the Academic Course</b>                                      | Introduction into medical chemistry, general, organic and biochemistry  |
| <b>10. Programme outputs and teaching, learning and assessment methods</b> |   |
| <b>A. Cognitive Objectives (Knowledge and Understanding)</b>               | <ul style="list-style-type: none"> <li>A.1- Teaching students the relationship of general and non-organic chemistry to human beings</li> <li>A.2- Understand the variables that occur when changes of concentration of materials to the body's health</li> <li>A.3- The relationship of acid and base measures in blood and their effects on organ functions</li> <li>A.4- Buffer solutions and their effects</li> <li>A.5 - Pollution and its impact on human health and environment</li> <li>A.6 - Radiation Chemistry and the effects of radiation on human health.</li> </ul> |
| <b>B. Programme Skill Objectives</b>                                       | <ul style="list-style-type: none"> <li>B.1 - Depending on the teaching method used, e.g., lesson discussion and questioning.</li> <li>B 2 - Use laboratories and practical experiments to increase student understanding and use them in practice</li> <li>B 3 - Methods of exams and assessments.</li> </ul>   |
| <b>Methods of Teaching and Learning</b>                                    | The teaching method changes depending on student understanding and interaction with the lesson. A discussion, investigation or inference methods are used. All methods may be used at the same time, as well as using laboratories and practical experiments to increase student understanding and awareness.   |





### **Assessment Methods**

Monthly examinations, quizzes, student attendances, in addition to their interaction with the subject and their participation and discussion during lectures and lessons.

### **C-Thinking Skills**

- C.1- Investigation
- C.2- Discussion
- C.3- Laboratory experiments and reports
- C.4- Induction

### **Methods of Teaching and Learning**

All methods of education used such as PowerPoint, presentation, laboratory reports as well as experiments, and all the process mentioned above

### **Assessment Methods**

Monthly assessment methods, oral and final examinations, short examinations and laboratory reports and through attendance and absence records

### **D. General and gained skills (Other skills related to employability and personal development).**

- D.1-Annual updating and development of lectures
- D.2- Follow-up of published research on the subjects in relevance.
- D.3- Conducting quarterly and annual researches through personal and collective efforts and publish them in Arab and global magazines.
- D.4-Discussion of the curriculum with the relevant and competent persons in order to reach the best of them.

| <b>11. Academic Course structure</b> |              |                                    |                             |   |   |
|--------------------------------------|--------------|------------------------------------|-----------------------------|---|---|
| <b>Week</b>                          | <b>Hours</b> | <b>Theoretical content</b>         | <b>Academic Course name</b> | <b>Teaching Method</b>                  | <b>Assessment method</b>                    |
| 1                                    | 2            | Acid, Base and Salt                | Chemistry                   | A theoretical lecture using Power Point | Short, quarterly, half-year and final exams |
| 2                                    | 2            | salts, preparation of salts        | Chemistry                   | A theoretical lecture using Power Point | Short, quarterly, half-year and final exams |
| 3                                    | 2            | Fluid and electrolyte              | Chemistry                   | A theoretical lecture using Power Point | Short, quarterly, half-year and final exams |
| 4                                    | 2            | Buffer-pH and Acid- Base Balance   | Chemistry                   | A theoretical lecture using Power Point | Short, quarterly, half-year and final exams |
| 5                                    | 2            | acid-base balance and blood pH     | Chemistry                   | A theoretical lecture using Power Point | Short, quarterly, half-year and final exams |
| 6                                    | 2            | Colloids and colloidal dispersions | Chemistry                   | A theoretical lecture using Power Point | Short, quarterly, half-year and final exams |
| 7                                    | 2            | Molar concentration (Molarity)     | Chemistry                   | A theoretical lecture using Power Point | Short, quarterly, half-year and final exams |
| 8                                    | 2            | Chirality in Biological Systems    | Chemistry                   | A theoretical lecture using Power Point | Short, quarterly, half-year and final exams |
| 9                                    | 2            | Pollution                          | Chemistry                   | A theoretical lecture using Power Point | Short, quarterly, half-year and final exams |

| <b>Week</b> | <b>Hours</b> | <b>Theoretical content</b>             | <b>Academic Course name</b> | <b>Teaching Method</b>                  | <b>Assessment method</b>                    |
|-------------|--------------|--|-----------------------------|---|---|
| 10          | 2            | Radiochemistry                         | Chemistry                   | A theoretical lecture using Power Point | Short, quarterly, half-year and final exams |
| 11          | 2            | Alkanes and Cycloalkanes               | Chemistry                   | A theoretical lecture using Power Point | Short, quarterly, half-year and final exams |
| 12          | 2            | Alkenes and Alkynes                    | Chemistry                   | A theoretical lecture using Power Point | Short, quarterly, half-year and final exams |
| 13          | 2            | Aromatic compounds                     | Chemistry                   | A theoretical lecture using Power Point | Short, quarterly, half-year and final exams |
| 14          | 2            | Aromatic compounds in Nature           | Chemistry                   | A theoretical lecture using Power Point | Short, quarterly, half-year and final exams |
| 15          | 2            | Stereoisomers of Carbon                | Chemistry                   | A theoretical lecture using Power Point | Short, quarterly, half-year and final exams |
| 16          | 2            | Diastereomers                          | Chemistry                   | A theoretical lecture using Power Point | Short, quarterly, half-year and final exams |
| 17          | 2            | Phenols (preparation, reactions)       | Chemistry                   | A theoretical lecture using Power Point | Short, quarterly, half-year and final exams |
| 18          | 2            | Carboxylic Acids and Their Derivatives | Chemistry                   | A theoretical lecture using Power Point | Short, quarterly, half-year and final exams |
| 19          | 2            | Amides                                 | Chemistry                   | A theoretical lecture using Power Point | Short, quarterly, half-year and final exams |

| <b>Week</b> | <b>Hours</b> | <b>Theoretical content</b>   | <b>Academic Course name</b> | <b>Teaching Method</b>                  | <b>Assessment method</b>                    |
|-------------|--------------|------------------------------|-----------------------------|---|---|
| 20          | 2            | Aldehydes and ketones        | Chemistry                   | A theoretical lecture using Power Point | Short, quarterly, half-year and final exams |
| 21          | 2            | Carbohydrates                | Chemistry                   | A theoretical lecture using Power Point | Short, quarterly, half-year and final exams |
| 22          | 2            | Monosaccharide's             | Chemistry                   | A theoretical lecture using Power Point | Short, quarterly, half-year and final exams |
| 23          | 2            | Disaccharides                | Chemistry                   | A theoretical lecture using Power Point | Short, quarterly, half-year and final exams |
| 24          | 2            | Lipids                       | Chemistry                   | A theoretical lecture using Power Point | Short, quarterly, half-year and final exams |
| 25          | 2            | Derived lipids               | Chemistry                   | A theoretical lecture using Power Point | Short, quarterly, half-year and final exams |
| 26          | 2            | Proteins and Amino Acids     | Chemistry                   | A theoretical lecture using Power Point | Short, quarterly, half-year and final exams |
| 27          | 2            | Amino acids                  | Chemistry                   | A theoretical lecture using Power Point | Short, quarterly, half-year and final exams |
| 28          | 2            | Nucleic Acids                | Chemistry                   | A theoretical lecture using Power Point | Short, quarterly, half-year and final exams |
| 29          | 2            | Nucleosides, Nucleotides     | Chemistry                   | A theoretical lecture using Power Point | Short, quarterly, half-year and final exams |
| 30          | 2            | Dioxy and ribo Nucliec acids | Chemistry                   | A theoretical lecture using Power Point | Short, quarterly, half-year and final exams |
|             |              |                              |                             | Power Point                             | final exams                                 |

| 12. Infrastructure   |  |
|--|--|
| 7- Books required reading  | <p>· Practical Organic And BIO- Chemistry<br/>BY<br/>R. H. A. PLIMINER<br/>Reader in Physiological Chemistry, University of London,<br/>University College<br/>۱۹۱۸</p> <p>· A text-book of macro and semimicro qualitative inorganic<br/>analysis .<br/>Fifth Edition Revised by<br/>G. Svehla, Ph. D., D. Sc., F. R. I. C Reader in Analytical Chemistry,<br/>Queen's University, Belfast</p> <p>· The Chemical Basis Of Life :General ,Organic, and Biological<br/>Chemistry for the Health Sciences<br/>By<br/>George H.Schmid</p> |
| 8- Main reference sources<br>f- - Recommended books and references<br>(scientific journals, reports...). |  |
| b-Electronic references, Internet sites...   | The faculty website  |
| <b>13. The development of the curriculum plan</b>  | <p>1-Development of academic content by deletion, addition and replacement.<br/>2-Using modern methods of teaching appropriate to the level of learners from time to time.<br/>3-Updating the assessment methods and measuring the level of students.4- Encouraging e-learning.<br/>5-Providing the student with the skills required by the dental profession and the changes of the times.</p>  |

### Laboratory sessions

| No. | Title of the sessions             | Hours |
|-----|-----------------------------------|-------|
| 1   | Action of Strong Base and Acids   | ۲     |
| 2   | Solubility                        | ۲     |
| 3   | Test for negative ions            | ۲     |
| 4   | Test for negative ions            | ۲     |
| 5   | PH meter                          | ۲     |
| 6   | Test for positive ions (Cations). | ۲     |
| 7   | Test for positive ions (Cations). | ۲     |
| 8   | Titration                         | ۲     |
| 9   | Safety of chemicals               | ۲     |
| 10  | Safety of chemicals               | ۲     |

|           |                                   |          |
|-----------|-----------------------------------|----------|
| <b>11</b> | <b>hydrocarbons</b>               | <b>۲</b> |
| <b>12</b> | <b>Aliphatic Hydrocarbons</b>     | <b>۲</b> |
| <b>13</b> | <b>Aliphatic Hydrocarbons</b>     | <b>۲</b> |
| <b>14</b> | <b>Aromatic hydrocarbons</b>      | <b>۲</b> |
| <b>15</b> | <b>Aromatic hydrocarbons</b>      | <b>۲</b> |
| <b>16</b> | <b>Preparation of aspirin</b>     | <b>2</b> |
| <b>17</b> | <b>alcohol</b>                    | <b>۲</b> |
| <b>18</b> | <b>Phenols reactions</b>          | <b>۲</b> |
| <b>19</b> | <b>Carboxylic Acids reactions</b> | <b>۲</b> |
| <b>20</b> | <b>Carboxylic Acids reactions</b> | <b>۲</b> |
| <b>21</b> | <b>Aldehydes and ketones</b>      | <b>۲</b> |
| <b>22</b> | <b>Carbohydrate</b>               | <b>۲</b> |
| <b>23</b> | <b>Carbohydrates</b>              | <b>۲</b> |
| <b>24</b> | <b>Carbohydrates</b>              | <b>۲</b> |
| <b>25</b> | <b>Lipids</b>                     | <b>۲</b> |
| <b>26</b> | <b>Lipids</b>                     | <b>۲</b> |
| <b>27</b> | <b>Proteins</b>                   | <b>۲</b> |
| <b>28</b> | <b>Proteins</b>                   | <b>۲</b> |
| <b>29</b> | <b>Paper chromatography</b>       | <b>۲</b> |
| <b>30</b> | <b>osmosis</b>                    | <b>2</b> |
|           | <b>Final Exam</b>                 |          |

|   |  |
|---|--|
| <b>1. Educational Institution</b>                 | Ministry of Higher Education and Scientific Research |
| <b>2. University Department/Centre</b>            | Science Department, Basic Science                    |
| <b>3. The name/code of the Academic Programme</b> | Physics/107PS  |
| <b>4. Programme included</b>                      |  |
| <b>5. Academic Study System</b>                   | Student attendance is 100% for all academic year     |
| <b>6. Academic Course/Year</b>                    | Two semesters / first stage                          |
| <b>7. Number of hours (total)</b>                 | 60 theoretical hours and 60 practical hours          |
| <b>8. Preparation Date of this Description</b>    | 2021-2022  |

**9. Objectives the Academic Course:**

enabling students to learn about the physical ideas related to the human body in two ways:  
Physical functions of organs of the human body and medical applications in diagnosis and treatment are described and applied.

Theoretical and practical mastery of the prescribed curriculum vocabulary



## **10. Programme outputs and teaching, learning and assessment methods**

### **A. Cognitive Objectives (Knowledge and Understanding)**

- A.1–Physics relationship to humans
- A.2– physical effects within the human body
- A.3– physical applications on the human body in diagnostic and therapeutic methods
- A.4– improvement of the performance of the human body by physical means
- A.5– All this information relates to human health.
- A.6–

### **B. Programme Skill Objectives**

- B.1- Lessons and discussion to consolidate ideas
- B.2 - Experiments, laboratories and reports.
- B.3-
- B.4-

### **Methods of Teaching and Learning**

Data Show

### **Assessment Methods**

Quarterly exams, quizzes, and student attendance, student work in the classroom and interaction with the lessons

### **C. Thinking Skills**

- C.1- Oral questions as a basis for discussion
- C.2- Practical experiments
- C.3- Laboratory reports
- C.4- Homework.

### **Methods of Teaching and Learning**

All learning methods used such as lessons, assignments, reports and discussion panels.

### **Assessment Methods**

Practical, theoretical, disciplined examinations within the lessons.

**D. General and gained skills (other skills related to employability and personal development).**

D.1- student preparation of theory and practice for doing tasks as required.

D.2-

D.3-

D.4-

## 11. Academic course structure

| Week | Hours  | Theoretical content  | Academic Course name | Teaching Method                        | Assessment method                           |
|------|--------|--|----------------------|--|---|
| 1-2  | 2<br>2 | <p><b>Terminology</b><br/>           Terms: Medical Physics, physical medicine, Physical therapy, Health Physics, Radiological Physics, clinical physics.<br/>           Modeling, Accuracy, Precision, False Positive, False Negative.</p>  | Physics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 3-4  | 2<br>2 | <p><b>Force on &amp; in body:</b><br/>           Static forces :( type of levers with medical examples).<br/>           Dynamic forces (Centrifuge)</p>  | Physics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 5-6  | 2<br>2 | <p><b>Physics of the skeleton:</b><br/>           Bones:(Function of bones, Composition of bone, bone remodeling, compact and trabecular bone)<br/>           Stress-strain curve :( compressive and tensile stress, young modulus). Bone joints :( Synovial fluid, coefficient of a joint).</p>                                     | Physics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 7-8  | 2<br>2 | <p><b>Heat and cold in medicine:</b><br/>           Physical basis of heat and temperature, Temperature scales, Converting Temperatures, Temperature in Dentistry, Thermal expansion, (Linear, Area, Volume Thermal Expansion), Thermometry, Heat therapy, Thermography, Cold in medicine and cryosurgery. Thermal conductivity.</p> | Physics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |

| Week  | Hours  | Theoretical content  | Academic Course name | Teaching Method                        | Assessment method                           |
|-------|--------|--|----------------------|--|---|
| 9-10  | 2<br>2 | <b><i>Energy, work and power of the body:</i></b><br>First law of thermodynamic. Energy change in the body (Met, Basal metabolic rate (BMR). Work and power. Efficiency heat losses from the body. Anaerobic phase and aerobic phase. Hypothalamus (body's thermostat).Heat lost by (radiation, convection, evaporation of sweat and respiration). | Physics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 11-12 | 2<br>2 | <b><i>Pressure:</i></b><br>Definition, absolute pressure, gauge pressure, negative pressure, unit of pressure. Measurement of pressure in the body (Manometer).Pressure inside the skull. Eye pressure. Pressure in the skeleton. Pressure in the urinary bladder.Boyle's law: (pressure while diving).HOT (hyperbaric oxygen therapy).            | Physics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 13-14 | 2<br>2 | <b><i>Electricity within the body:</i></b><br>Electrical potential of nerves (resting potential, action potential in myelinated and unmyelinated nerves) Electromyogram (EMG). Electrical potential in the heart (electrocardiogram ECG). Electroencephalogram (EEG)   | Physics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 15-16 | 2<br>2 | <b><i>Sound in medicine:</i></b><br>Properties of sound. Stethoscope (including heart sound).mechanism of hearing  | Physics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 17-18 | 2<br>2 | <b><i>Ultrasound</i></b><br>(A-scan, B-scan, M-scan and Doppler effect). Physiological effect of ultrasound in therapy.  | Physics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 19-20 | 2<br>2 | <b><i>Light in medicine:</i></b><br>Light nature, Planck Equation, (Reflection, Refraction and Absorption of Light, Properties of light), Diffuse reflection, Specular reflection, Phototherapy, Application of ultraviolet and infrared light in medicine, Tanning and Skin Cancer.   | Physics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 21-22 | 2<br>2 | <b><i>Laser in medicine.</i></b><br>What is laser? Application of laser in medicine  | Physics              | A theoretical lesson using             | Short, quarterly, half-year and             |

|       |   |   |         |   |  |
|-------|---|---|---------|---|--|
|       |   | Atomic Transitions, Population inversion, Laser Typical Characteristics, General Applications of Laser, Laser Dental Applications, Reshape gum tissue, Laser aided teeth whitening, Laser Drill.                        |         | Power Point                                   | final exams  |
| 23-24 | 2 | <p><b><i>Physics of eye and vision:</i></b><br/> Focusing element of the eye (cornea, lens).<br/> Element of the eye (pupil, aqueous humor, vitreous humor, sclera). Visual acuity, Snellen chart, optical density.</p> | Physics | A theoretical lesson using<br><br>Power Point | Short, quarterly, half-year and<br><br>final exams |

| Week  | Hours  | Theoretical content  | Academic Course name | Teaching Method                        | Assessment method                           |
|-------|--------|--|----------------------|--|---|
| 25-26 | 2<br>2 | <b><i>Physics of diagnostic X-ray:</i></b><br>Properties of X-ray, production of X-ray. Absorption of X-ray, contrast media-ray image (penumbra, grid, and intensifying screens). Radiation to patients from X-ray (filters).  | Physics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 27-28 | 2<br>2 | <b><i>Physics of nuclear medicine:</i></b><br>Radioactivity decay, half-life, units. Basic instrumentation and its medical application (GM-tube, Photomultiplier tube, scintillation detector, solid state detector). Therapy with radioactivity. Radiation doses in nuclear medicine. | Physics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 29-30 | 2<br>2 | <b><i>Physics of radiation therapy:</i></b><br>The dose units (Rad and Gray). Principles of radiation therapy.<br>Brach therapy, quality factor (QF).  | Physics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |

| 12. Infrastructure  |   |
|---|---|
| 9- Books required reading   | Practical Physics by Edward Armitage<br>Medical Physics by John Cameron<br>Physics of the human body by Irving Herman   |
| 10- Main reference sources<br>g- - Recommended books and references<br>(scientific journals, reports...). |   |
| b-Electronic references, Internet sites...  | The faculty website   |
| <b>13. The development of the curriculum plan</b>   | 1-Development of academic content by deletion, addition and replacement.<br>2-Using modern methods of teaching appropriate to the level of learners from time to time.<br>3-Updating the assessment methods and measuring the level of students.4- Encouraging e-learning.<br>5-Providing the student with the skills required by the dental profession and the changes of the times. |

### *Laboratory sessions*

| No. | Title of the sessions  | Hours |
|-----|--|-------|
|     | Guidelines of Medical Physics Lab and Rules must be obeyed by the students   |       |
| 1   | Graphing Techniques  | 2     |
| 2   | Ohm's law:<br>- verify ohm's law   | 2     |
| 3   | - to find the value of different values of resistance  | 2     |
| 4   |  | 2     |
|     | <b>Semiconductors (junction diode):</b><br>To determine the characteristics of the semiconductors  |       |
| 5   | Comparison between omic and non-omic resistance  | 2     |
| 6   |  | 2     |
|     | <b>Cathode Ray Oscilloscope</b><br>-Measurement of deflection sensitivity of D. C. voltage.  |       |
| 7   | -Measurement of deflection sensitivity of A. C. voltage  | 2     |
| 8   |  | 2     |
|     | <b>The focal length of convex lens:</b><br>-Rough value of focal length of different convex lenses,<br>-A graphical method of measuring of focal length, |       |
| 9   | Comparison between these methods and the given value.  | 2     |
| 10  |  | 2     |
|     | <b>Hook's law:</b><br>-To verify Hook's law and determine the force constant of the spring.  |       |
| 11  | -To determine the work done by stretching the spring.  | 2     |

|     |   |   |
|-----|---|---|
| 12  | <b>Focal length of concave mirror:</b>  | 2 |
|     | -Locating the radius of curvature   |   |
| 13  | -Determining the focal length   | 2 |
| 14  |   | 2 |
| 15  | General review and 1 <sup>st</sup> course exam  | 2 |
|     | <b>Laser applications:</b>  |   |
|     | -To measure the width of a single slit by using a laser   |   |
| 16  | -To measure the wavelength of laser by using a certain single slit  | 2 |
|     | <b>Boyle's law:</b>   |   |
|     | -To verify Boyle's law  |   |
| 17  | -To measure the pressure of the atmosphere  | 2 |
| 18  |   | 2 |
| 19  |   | 2 |
|     | <b>Inverse Square law:</b>  |   |
|     | - To verify the inverse square law  |   |
| 20  | - Radiation shielding by different thicknesses of of a certain material                                   | 2 |
|     | <b>Viscosity of a liquid</b>  |   |
|     | - To determine the viscosity of a medium using a small sphere falls with a constant terminal velocity.    |   |
| 21  | - To verify Stokes' law   | 2 |
| 22  |   | 2 |
|     | <b>Velocity of the sound</b>  |   |
|     | - To measure the velocity of the sound by using a resonance tube, closed at one end, at room temperature. |   |
|     | - Calculated the theoretical and practical values of the velocity of sound and comparing between them.    |   |
| 23  |   | 2 |
| 24  |   | 2 |
|     | <b>The focal length of a converging lens</b>  |   |
|     | - To determine the focal length of a converging lens by lens displacement method using conjugate foci.    |   |
| 25  | - To calculate curvature value of this converging lens  | 2 |
| 26  |   | 2 |
|     | <b>Simple Pendulum</b>  |   |
|     | -To determine the periodic time and its variation with the length of the pendulum                         |   |
| 27  | -To calculate the acceleration of free fall   | 2 |
| 28  |   | 2 |
| 29- | General review and 2 <sup>nd</sup> course exam  |   |
| 30  |   | 2 |



|   |  |
|---|--|
| <b>1. Educational Institution</b>   | Ministry of Higher Education and Scientific Research |
| <b>2. University Department/Centre</b>  | Science Department, Basic Science                    |
| <b>3. The name/code of the Academic Programme</b>   | Biology / BL 108                                     |
| <b>4. Programme included</b>  | Biology and its relationship to human health         |
| <b>5. Available Academic Courses</b>  | Student attendance is 100% for all academic year     |
| <b>6. Academic Study System/Year</b>  | Two semesters / first stage                          |
| <b>7. Number of hours (total)</b>   | 60 theoretical hours and 60 practical hours          |
| <b>8.Preparation Date of this Description</b>   | 2021-2022.   |
| <b>9.Aims of the Academic Programme</b>   |  |
| Access to biology and understanding of its various branches such as parasites, cell science, tissues and genetics |  |

## **10. Programme outputs and teaching, learning and assessment methods**

### **A. Cognitive Objectives (Knowledge and Understanding)**

- A.1- Student learning the relationship of life sciences to human beings
- A.2- Understand the impact of life science on body health
- A.3- The relationship of parasitology and cell science to human diseases
- A.4- The relationship of genetics to human health
- A.5- The relationship of tissue science to human beings
- A.6- Relationship of cell science to blood

### **B. Programme Skill Objectives**

- B.1 – Depending on the teaching method used, e.g., lecture discussion, questioning.
- B.2 - Use laboratories and practical experiments to increase student understanding and learn this in practice
- B.3 - Method of surprise exams and quizzes

### **Methods of Teaching and Learning**

The teaching method changes depending on student understanding and interaction with the lesson. A discussion, investigation or inference methods are used. All methods may be used at the same time, as well as using laboratories and practical experiments to increase student understanding and awareness.

### **Assessment methods**

Monthly examinations, short and surprise exams and student attendance. In addition to their interaction with the subjects and their activities during the lessons

### **C. Thinking Skills**

- C.1 - Investigation
- C.2 - Discussion
- C.3 - Laboratory experiments and reports
- C.4 - Induction

### **Methods of Teaching and Learning**

Monthly examinations, short, quarterly, half-year, final exams, laboratory reports and through attendance and absence records.

**D. General and gained skills (Other skills related to employability and personal development.)**

D.1 – Annual development of lectures

D.2 - Follow-up of published research on the subjects studied

D.3 - Undertake quarterly and annual research through personal and collective efforts and publish them in Arab and global magazines

D.4 -Discuss the curriculum with those people of knowledge and competence in order to reach the best results

## 11. Academic course structure

| Week | Hours | Theoretical content                 | Academic Course name | Teaching Method                        | Assessment method                           |
|------|-------|-------------------------------------|----------------------|--|---|
| 1    | 2     | Introduction to Biology             | Biology              | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 2    | 2     | Bacteria and viruses                | Biology              | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 3    | 2     | Bacteria and disease                | Biology              | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 4    | 2     | Immune system                       | Biology              | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 5    | 2     | Parasitology, type of Parasites     | Biology              | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 6    | 2     | Types of hosts                      | Biology              | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 7    | 2     | Entamoeba histolytica, and coli     | Biology              | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 8    | 2     | Giardia lambelia, Leishmaniatropica | Biology              | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 9    | 2     | Plasmodium vivax, Toxoplasma gondii | Biology              | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |

| <b>Week</b> | <b>Hours</b> | <b>Theoretical content</b>                      | <b>Academic Course name</b> | <b>Teaching Method</b>                 | <b>Assessment method</b>                    |
|-------------|--------------|---|-----------------------------|--|---|
| 10          | 2            | Fasciola hepatica, Schistosomaspp               | Biology                     | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 11          | 2            | Taeniasaginata and solium, hinococcusgranulosus | Biology                     | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 12          | 2            | Ascarislumbricoides, Ancylostoma, Enterobius    | Biology                     | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 13          | 2            | Cell biology                                    | Biology                     | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 14          | 2            | Structure of macromolecules                     | Biology                     | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 15          | 2            | Structure of plasma membrane                    | Biology                     | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 16          | 2            | Half-year Brea                                  | Biology                     | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 17          | 2            | Endoplasmic Reticulum                           | Biology                     | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 18          | 2            | Mitochondria, Golgi Apparatus                   | Biology                     | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 19          | 2            | Nuclear membrane and Chromatin                  | Biology                     | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |

| <b>Week</b> | <b>Hours</b> | <b>Theoretical content</b>                      | <b>Academic Course name</b> | <b>Teaching Method</b>                 | <b>Assessment method</b>                    |
|-------------|--------------|---|-----------------------------|--|---|
| 20          | 2            | Spermatogenesis and Oogenesis                   | Biology                     | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 21          | 2            | Histology, epithelial tissues                   | Biology                     | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 22          | 2            | Connective tissues                              | Biology                     | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 23          | 2            | Cartilage, bones                                | Biology                     | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 24          | 2            | Blood   | Biology                     | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 25          | 2            | Muscular tissue                                 | Biology                     | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 26          | 2            | Nerve tissues                                   | Biology                     | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 27          | 2            | Genetic and inheritance                         | Biology                     | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 28          | 2            | Hereditary and environment, DNA, RNA            | Biology                     | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 29          | 2            | Human karyotypes, chromosomes, mutation         | Biology                     | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 30          | 2            | Blood groups, genetic engineering, restrictions | Biology                     | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |

**Laboratory sessions**

| No.   | Title of the sessions   | Hours |
|-------|---|-------|
| 1     | Laboratory safety   | 2     |
| 2     | Parts of microscope   | 2     |
| 3     | Types of cells  | 2     |
| 4     | Simple epithelial tissue                                      | 2     |
| 5     | Stratified epithelia tissue                                   | 2     |
| 6     | Glandular epithelial tissue                                   | 2     |
| 7     | Serous, Mucous, Sero-mucous cell glands                       |       |
| 8     | Proper connective tissue, Loose                               | 2     |
| 9     | Proper connective tissue, dense                               | 2     |
| 10    | Special connective tissue, type of cells                      | 2     |
| 11    | Cartilage, Hyaline, Elastic, Fibro                            | 2     |
| 12    | Compact and spongy bone                                       | 2     |
| 13    | Human Blood, W.B.C , R.B.C and frog blood                     | 2     |
| 14    | Muscular tissue: Skeletal, cardiac and smooth muscles         | 2     |
| 15    | Nerve cell  | 2     |
| 16    | Central and peripheral nerve system                           | 2     |
| 17    | Spinal cord and meninges                                      | 2     |
| 18    | <i>Entamoebahistolytica, Entamoeba coli</i>                   | 2     |
| 19    | <i>Giardia lamblia, Trichomonasvaginalis Trichomonantenax</i> | 2     |
| 20    | <i>Leishmaniatropica, Leshmaniadonovani</i>                   | 2     |
| 21    | <i>Trypanosomagambiense, T.rhodesiense</i>                    | 2     |
| 22    | <i>Plasmodium vivax, Toxoplasma gondii</i>                    | 2     |
| 23    | <i>Balantidium coli</i>                                       | 2     |
| 24    | <i>Echinococcusgranulosus, Taeniasaginata Taeniasolium</i>    | 2     |
| 25    | <i>Ancylostoma, Ascaris, Entrobilus</i>                       | 2     |
| 26    | <i>Schistosomaspp, Fasciola hepatica</i>                      | 2     |
| 27    | Endoskeleton of frog  | 2     |
| 28    | Experiment...examine samples of water                         | 2     |
| 29    | Experiment...examine samples of water (one hour),             | 2     |
| 30    | Experiment ...Blood groups                                    | 2     |
| Total |   | 60    |

| <b>12. Infrastructure</b>   |   |
|---|---|
| 1- Books required reading   | 1-Paniker's Textbook of Medical parasitology eight edition(2018)  |
| 2- Main reference sources   | 2- Textbook of Histology , (2020 ) by Leslie P. Gartner , Elsevier Health Sciences, Medical - 704 pages.  |
| A - Recommended books and references (scientific journals, reports...). | 3- CELL BIOLOGY, Third edition. (2·17) Thomas. D; William .C; Jennefer. L. and Graham. T. Printed in U.S.A.   |
| b-Electronic references, Internet sites...                              | The faculty website   |
| <b>13. The development of the curriculum plan</b>                       | 1-Development of academic content by deletion, addition and replacement.<br>2-Using modern methods of teaching appropriate to the level of learners from time to time.<br>3-Updating the assessment methods and measuring the level of students.4- Encouraging e-learning.<br>5-Providing the student with the skills required by the dental profession and the changes of the times. |



|  |  |
|--|--|
| 1. Teaching Institution  | Ministry Of Higher Education & Scientific Research / University Of Baghdad |
| 2. University/Department/Centre  | College Of Dentistry/ Department of basic science                          |
| 3. Course Title/ Code  | English language   |
| 4. Modes of Attendance offered   | E learning. Google classroom theoretical lectures                          |
| 5. Semester/Year   | Two semesters / the 1 <sup>st</sup> stage                                  |
| 6. Number of hours tuition (total)   | 30 theoretical hours   |
| 7. Date of production/revision of this specification   | 2021-2022  |
| 8. Aims of the Program to increase the academic level of the undergraduate students concerning English language and to develop their skills of communications. |  |
| .  |  |

|  |
|--|
| 9. Learning Outcomes, Teaching ,Learning and Assessment Method   |
| <p>A. Cognitive goals</p> <p>A1. Let the students communicate by using English</p> <p>A2. Increase the academic status of the students</p> |
| <p>B. The skills goals special to the course.</p> <p>B1. Reading</p> <p>B2. writing</p> <p>B3. Listening</p>                               |
| Teaching and Learning Methods  |
| Lessons using power point (data show) through google classroom   |
| Assessment methods   |
| Short, quarterly, half-year and final exams  |

|  |
|--|
| C. Affective and value goals<br>C1. getting good accent<br>C2. know how to write an academic paper |
| Teaching and Learning Methods  |
| Theoretical lessons by using google classroom  |
| Assessment methods   |
| Short, quarterly, half-year and final exams  |

| 10. Course Structure |       |  |                            |  |   |
|----------------------|-------|--|----------------------------|--|---|
| Week                 | Hours | ILOs                                       | Unit/Module or Topic Title | Teaching Method                        | Assessment Method                           |
| 1                    | 1     | Tenses/ questions/ forms/ everyday English | English language           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 2                    | 1     | Integumentary System                       | English language           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 3                    | 1     | Muscular System                            | English language           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 4                    | 1     | Respiratory System                         | English language           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 5                    | 1     | Digestive System                           | English language           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 6                    | 1     | Nervous System                             | English language           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 7                    | 1     | Cardiovascular System                      | English language           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 8                    | 1     | Blood and Lymph                            | English language           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 9                    | 1     | Immune System                              | English language           | A theoretical lesson using             | Short, quarterly, half-year and             |

|    |   |  |                  |  |   |
|----|---|--|------------------|--|---|
|    |   |  |                  | Power Point                            | final exams                                 |
| 10 | 1 | Endocrine System   | English language | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 11 | 1 | Five Sense   | English language | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 12 | 1 | Genitourinary System   | English language | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 13 |   | Dental Terminology Part I  | English language | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 14 |   | Dental Terminology Part II   | English language | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 15 |   | Dental Terminology Part III  | English language | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 16 |   | Have/have got, present simple/present continuous everyday English  | English language | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 17 |   | Past simple/ past continuous/ prepositions in time expressions/ vocabulary making negatives Prefixes & suffixes Small Talk Adjectives Writing assignment | English language | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 18 |   | Common Mistakes Passive voice Direct and indirect speech Synonyms in English   | English language | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 19 |   | Expression of quantity / articles /vocabulary/ everyday English Idioms and Phrases Pronunciation rules   | English language | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 20 |   | Verb pattern/ like doing/would like to do/will/going to/ vocabulary/ everyday English  | English language | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 21 |   | What, like/ comparatives and super relatives adjectives/synonyms/ Antonyms   | English language | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |

|    |  |  |                  |  |   |
|----|--|--|------------------|--|---|
| 22 |  | Present perfect/ present perfect and past simple/  | English language | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 23 |  | Have to  | English language | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 24 |  | Introduction to modal auxiliary verbs/should/must  | English language | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 25 |  | Time clause/will/first conditional/ used to/used to and past simple/infinitives/vocabulary | English language | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 26 |  | The passive/second conditional/might   | English language | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 27 |  | Present perfect continuous/past perfect/ reported statements/appendix                      | English language | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 28 |  | Synonyms and Antonyms  | English language | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 29 |  | Integrating a quotation into an essay<br>Prepositions in English Grammar with Examples     | English language | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 30 |  | Paraphrasing<br>Essay writing skills   | English language | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |

|   |  |
|---|--|
| <b>12. Infrastructure</b>   |  |
| 1- Books required reading   | 1.headway intermediate level<br>2.oxford English grammar course          |
| 2- Main reference sources<br>a- - Recommended books and references (scientific journals, reports...). | Medical Terminology 3 <sup>rd</sup> Edition (Charline M Dofka)           |
| b-Electronic references, Internet sites...  | The faculty website  |
| <b>13. The development of the curriculum plan</b>   | 1-Development of academic content by deletion, addition and replacement. |

2-Using modern methods of teaching appropriate to the level of learners from time to time.  
 3-Updating the assessment methods and measuring the level of students.  
 4- Encouraging e-learning.  
 5-Providing the student with the skills required by the dental profession and the changes of the times.

|   |   |
|---|---|
| <b>1. Educational Institution</b>                 | Higher Education - College of Dentistry         |
| <b>2. University Department/Centre</b>            | College of Dentistry, Prosthesis                |
| <b>3. The name/Code of the Academic Programme</b> | 209DM   |
| <b>4. Programme included</b>                      | Dental Material                                 |
| <b>5. Academic Study System</b>                   | Student attendance at lectures and laboratories |
| <b>6. Academic Course/Year</b>                    | Two semesters/ second stage                     |
| <b>7. Number of hours (total)</b>                 | 30 theoretical hours and 60 practical hours     |
| <b>8. Preparation Date of this Description</b>    | 2021-2022.                                      |
| <b>9. Objectives of the Academic Programme</b>    |   |

Learn the physical, chemical and mechanical properties of materials in dentistry and learn the skills to handle and adapt these materials.

## **10. Programme outputs and teaching, learning and assessment methods**

### **A. Cognitive Objectives (Knowledge and Understanding)**

A.1 - Student learning of various types of materials involved in dentistry

A.2 - Providing the necessary information to deal with these materials

A.3 - Providing guidance and following up on the process of using materials from mixing and following up the interactions of the material to reach the end of the interaction.

### **B. Programme Skill Objectives**

B.1 - describing the tools used to prepare enough materials

B.2- teaching the students how to use it and following it up while working

### **Methods of Teaching and Learning**

LCD, lesson, show data, live explanation and handling all types of materials listed in the curriculum.  
The Academic Course sets that the students are divided into groups on the number of days for week

### **Assessment methods**

Weekly, monthly, half-year and annual examinations

### **C. Thinking Skills**

C.1 - Ability to solve problems

C.2 – Ability to deal with dental materials in various conditions, such as changing temperature or changing the ratios for mixing these materials altogether to reach the best results of them.

C.3 -

### **Methods of Teaching and Learning**

Theoretical and practical lessons (stimulus and response)  
Observing student response in the halls of practical demonstration

### **Assessment methods**

Theoretical examinations

### **D. General and gained skills (other skills related to employability and personal development).**

D.1- Teaching students the method of dialogue and discussion to solve dilemmas and problems.

| Week | Theoretical Content  | Hours | Teaching Method  | Assessment Method  |
|------|--|-------|--|--|
| 1    | <b>Introduction to dental materials, physical, mechanical, chemical and biological properties of dental materials</b>  | 1     | <p>For the theoretical approach, the teaching method includes preparation of lessons by Power Point</p> <p>For the lab, it includes live explanation, interaction with lectures, and direct handling of dental materials</p> | <p>Short, Quarterly, half-year and final exams.</p> <p>For the laboratory, practical exams</p> |
| 2    | <b>Gypsum product</b><br>Definition, requirement, types: <ul style="list-style-type: none"> <li>• gypsum bonded investment</li> <li>• phosphate bonded investment</li> <li>• ethyl silicate bonded (composition, properties and manipulation)</li> </ul> | 1     | <p>For the theoretical approach, the teaching method includes preparation of lessons by Power Point</p> <p>For the lab, it includes live explanation, interaction with lectures, and direct handling of dental materials</p> | <p>Short, Quarterly, half-year and final exams.</p> <p>For the laboratory, practical exams</p> |

| <b>Week</b> | <b>Theoretical Content</b>  | <b>Hours</b> | <b>Teaching Method</b>  | <b>Assessment method</b>  |
|-------------|---|--------------|---|---|
| 3           | <b>Investment materials</b><br>factors affecting setting time, setting expansion, strength, storage and manipulation of gypsum products, hygroscopic expansion. table with properties       | 1            | For the theoretical approach, the teaching method includes preparation of lessons by Power Point<br><br>For the lab, it includes live explanation, interaction with lectures, and direct handling of dental materials | Short, Quarterly, half-year and final exams.<br><br>For the laboratory, practical exams |
| 4           | <b>Impression materials</b><br>Definition<br>Ideal properties of impression materials.<br>Classification of impression materials.<br>Non elastic impression materials<br>Impression plaster | 1            | For the theoretical approach, the teaching method includes preparation of lessons by Power Point<br><br>For the lab, it includes live explanation, interaction with lectures, and direct handling of dental materials | Short, Quarterly, half-year and final exams.<br><br>For the laboratory, practical exams |
| 5           | - <b>Impression compound</b><br>- <b>Zinc oxide-eugenol</b>   | 1            | For the theoretical approach, the teaching method includes preparation of lessons by Power Point<br><br>For the lab, it includes live explanation, interaction with lectures, and direct handling of dental materials | Short, Quarterly, half-year and final exams.<br><br>For the laboratory, practical exams |
| 6           | <b>Elastic impression material</b>  | 1            | For the theoretical approach, the teaching method includes preparation of lessons by Power Point<br><br>For the lab, it includes live explanation, interaction with lectures, and direct handling of dental materials | Short, Quarterly, half-year and final exams.<br><br>For the laboratory, practical exams |
| 7           | <b>Elastomeric impression material</b>  | 1            | For the theoretical approach, the teaching method includes preparation of lessons by Power Point<br><br>For the lab, it includes live explanation, interaction with lectures, and direct handling of dental materials | Short, Quarterly, half-year and final exams.<br><br>For the laboratory, practical exams |



| Week | Theoretical Content  | Hours | Teaching Method  | Assessment Method  |
|------|--|-------|--|--|
| 8    | <p><b>Filling materials</b><br/>           Direct filling material<br/>           Definition<br/>           Factors causing loss of tooth substance.<br/>           Requirement of an ideal filling material.<br/>           Classification of filling material</p> <p><b>Anterior filling materials</b><br/>           1. silicate cement.<br/>           Disadvantages.<br/>           2. acrylic resin.<br/>           Disadvantages.</p> | 1     | <p>For the theoretical approach, the teaching method includes preparation of lessons by Power Point</p> <p>For the lab, it includes live explanation, interaction with lectures, and direct handling of dental materials</p> | <p>Short, Quarterly, half-year and final exams.</p> <p>For the laboratory, practical exams</p> |
| 9    | <p><b>Composite filling materials.</b><br/>           Composition and structure.<br/>           Types of composite<br/>           1. according to methods of curing<br/>           2. classification based on size of filler particles/<br/>           Filler content<br/>           Properties</p>  | 1     | <p>For the theoretical approach, the teaching method includes preparation of lessons by Power Point</p> <p>For the lab, it includes live explanation, interaction with lectures, and direct handling of dental materials</p> | <p>Short, Quarterly, half-year and final exams.</p> <p>For the laboratory, practical exams</p> |

| Week | Theoretical Content  | Hours | Teaching Method  | Assessment method  |
|------|--|-------|--|--|
| 10   | <p><b>Posterior filling materials</b><br/> Dental amalgam Classification of amalgam alloys.<br/> Manufacture of alloy powder<br/> Aging<br/> Spherical powder Composition<br/> Low copper<br/> High copper<br/> 1. admix<br/> 2. Unicomposition<br/> Low copper alloy<br/> Available as<br/> Setting reaction<br/> High copper alloy</p> | 1     | <p>For the theoretical approach, the teaching method includes preparation of lessons by Power Point</p> <p>For the lab, it includes live explanation, interaction with lectures, and direct handling of dental materials</p> | <p>Short, Quarterly, half-year and final exams.</p> <p>For the laboratory, practical exams</p> |
| 11   | <p><b>Properties of set amalgam</b><br/> 1. Dimensional changes. Factor favouring contraction.<br/> 2. Strength.<br/> Factors affecting strength.<br/> 1. effect of trituration<br/> 2. effect of Hg content.<br/> 3. Effect of condensation.</p>  | 1     | <p>For the theoretical approach, the teaching method includes preparation of lessons by Power Point</p> <p>For the lab, it includes live explanation, interaction with lectures, and direct handling of dental materials</p> | <p>Short, Quarterly, half-year and final exams.</p> <p>For the laboratory, practical exams</p> |
| 12   | <p><b>Metallic denture base materials, Metal and metal alloy</b> Definition of alloy, requirement of casting alloy, application of dental alloy, classification of metal, classification of dental alloy, gold foil (advantage, disadvantages), gold alloys (composition and</p>   | 1     | <p>For the theoretical approach, the teaching method includes preparation of lessons by Power Point</p> <p>For the lab, it includes live explanation, interaction with lectures, and direct handling of dental materials</p> | <p>Short, Quarterly, half-year and final exams.</p> <p>For the laboratory, practical exams</p> |

|    |  |   |   |   |
|----|--|---|---|---|
| 13 | <p><b>alternative of gold alloys,</b><br/>metal ceramic alloys (requirement, types), removable denture base alloys (requirements, types), co/cr alloy (application, composition, properties, advantages, disadvantages)</p>            | 1 | <p>For the theoretical approach, the teaching method includes preparation of lessons by Power Point</p> <p>For the lab, it includes live explanation, interaction with lecturers, and direct handling of dental materials</p> | <p>Short, quarterly and final theoretical exams.</p> <p>For the laboratory, practical exams</p> |
| 14 | <p><b>Titanium and Titanium alloys:</b><br/>Applications, properties, Ni/cr alloys, composition, indications, wrought stainless steel allo</p>   | 1 | <p>For the theoretical approach, the teaching method includes preparation of lessons by Power Point</p> <p>For the lab, it includes live explanation, interaction with lecturers, and direct handling of dental materials</p> | <p>Short, quarterly and final theoretical exams.</p> <p>For the laboratory, practical exams</p> |
| 15 | <p><b>Non-metallic denture base</b><br/>Polymers and polymerization<br/>Definition of polymer, co-polymer, cross-link polymer, polymerization, degree of polymerization. Factors which control structure and properties of polymer</p> | 1 | <p>For the theoretical approach, the teaching method includes preparation of lessons by Power Point</p> <p>For the lab, it includes live explanation, interaction with lecturers, and direct handling of dental materials</p> | <p>Short, quarterly and final theoretical exams.</p> <p>For the laboratory, practical exams</p> |
| 16 | <p><b>Denture base resin</b><br/>Requirement for clinically acceptable denture base material<br/>Old materials used to constrict denture.<br/>The material of choice to use as denture base material</p>                               | 1 | <p>For the theoretical approach, the teaching method includes preparation of lessons by Power Point</p> <p>For the lab, it includes live explanation, interaction with lecturers, and direct handling of dental materials</p> | <p>Short, quarterly and final theoretical exams.</p> <p>For the laboratory, practical exams</p> |

| Week | Theoretical Content  | Hours | Teaching Method  | Assessment method  |
|------|--|-------|--|--|
| 17   | <b>Properties of heat cure</b><br>Composition of chemically activated resin<br>Compared to heat activated resins<br>Light activated resin<br>Composition Processing errors   | 1     | For the theoretical approach, the teaching method includes preparation of lessons by Power Point<br>For the lab, it includes live explanation, interaction with lecturers, and direct handling of dental materials | Short, quarterly and final theoretical exams.<br>For the laboratory, practical exams |
| 18   | <b>Waxes Definition,</b><br>Requirements, classification of wax according to origin & melting point, classification of wax according to uses properties of dental waxes.   | 1     | For the theoretical approach, the teaching method includes preparation of lessons by Power Point<br>For the lab, it includes live explanation, interaction with lecturers, and direct handling of dental materials | Short, quarterly and final theoretical exams.<br>For the laboratory, practical exams |
| 19   | <b>Temporary filling</b><br>Definition, indication, Requirements, Types  | 1     | For the theoretical approach, the teaching method includes preparation of lessons by Power Point<br>For the lab, it includes live explanation, interaction with lecturers, and direct handling of dental materials | Short, quarterly and final theoretical exams.<br>For the laboratory, practical exams |
| 20   | <b>Cements</b><br>Classification of dental cements, Definition, Requirements   | 1     | For the theoretical approach, the teaching method includes preparation of lessons by Power Point<br>For the lab, it includes live explanation, interaction with lecturers, and direct handling of dental materials | Short, quarterly and final theoretical exams.<br>For the laboratory, practical exams |
| 21   | <b>Tissue conditioner</b><br>Definition, Types, Requirements, indication.<br><b>Soft liners</b><br><b>Types:</b> Requirements, indication, properties  | 1     | For the theoretical approach, the teaching method includes preparation of lessons by Power Point<br>For the lab, it includes live explanation, interaction with lecturers, and direct handling of dental materials | Short, quarterly and final theoretical exams.<br>For the laboratory, practical exams |
| 22   | <b>Polishing and Abrasives</b> <ul style="list-style-type: none"> <li>- Definition, factors affecting finishing and polishing, Types, and indication for each.</li> <li>- Denture cleaners: Types, Requirements</li> </ul> | 1     | For the theoretical approach, the teaching method includes preparation of lessons by Power Point<br>For the lab, it includes live explanation, interaction with lecturers, and direct handling of dental materials | Short, quarterly and final theoretical exams.<br>For the laboratory, practical exams |

*Laboratory sessions*

| <b>No.</b> | <b>Title of the sessions</b>   | <b>Hours</b> |
|------------|--|--------------|
| 1          | Introduction and physical properties of dental material  | 2            |
| 2          | Mechanical properties (stress strain curve)  | 2            |
| 3          | Showing different types of gypsum materials (plaster, stone)   | 2            |
| 4          | Steps of mixing plaster and demonstrate the steps of setting.  | 2            |
| 5          | Impression plaster, demonstrate the manipulation of impression compound  | 2            |
| 6          | Zinc oxide impression material and agar impression \demonstrate the mixing of zinc oxide impression.   | 2            |
| 7          | Alginate impression (elastic impression) showing the trays used and the mixing of alginate and water according to manufacturer instructions. | 2            |
| 8          | Poly sulphide, condensation and addition silicon\dmixing of heavy body and light body.   | 2            |
| 9          | Poly ether, hybrid impression, digital impression.   | 2            |
| 10         | Showing different types of wax (denture base plate, denture casting wax and others)  | 2            |
| 11         | Demonstrate how to use wax material and its manipulation.  | 2            |
| 12         | Introduction to polymers.  | 2            |
| 13         | Different types of denture base materials (heat, cold and light activated polymers) demon-<br>strate the mixing of polymer and monomer.      | 2            |
| 14         | Thermoplastic polymers (flexible denture base material).   | 2            |
| 15         | Investment materials (showing the method of the investment).   | 2            |
| 16         | Introduction to cement materials.  | 2            |
| 17         | Showing different types of cement materials and the method of mixing of cement.  | 2            |
| 18         | Temporary filling (use and manipulation).  | 2            |
| 19         | Introduction to metal and metal alloy.   | 2            |
| 20         | Showing the different types of metal and metal alloy.  | 2            |
| 21         | Introduction to crown and bridge material.   | 2            |
| 22         | Introduction to filling material.  | 2            |
| 23         | Amalgam filling\showing the amalgam capsules and mixing of amalgam.  | 2            |
| 24         | Composite filing (chemical and light activated ).  | 2            |
| 25         | Micro filled, hybrid, and nano composite.  | 2            |
| 26         | Demonstrate the setting of chemical and light activated composite filling material   | 2            |
| 27         | Showing different types of preventive materials (toothpastes, gargles. Mouth wash fluoride<br>varnishes and resin sealers).                  | 2            |
| 28         | Demonstrate the obstructing materials (gutta percha, sealers) and endodontic instruments.  | 2            |
| 29         | Finishing and polishing materials.   | 2            |
| 30         | Relining materials.  | 2            |
| Total      |  | 60           |

|  |   |
|--|---|
| <b>12. Infrastructure</b>  |   |
| 1- Books required reading  | Phillips applied dental material<br>Restorative dental material<br>Dental material their selection and use  |
| 2- Main reference sources<br>A- - Recommended books and references (scientific journals, reports...).  |   |
| b-Electronic references, Internet sites...   | The faculty website   |
| <b>13. The development of the curriculum plan</b>  | 1-Development of academic content by deletion, addition and replacement.<br>2-Using modern methods of teaching appropriate to the level of learners from time to time.<br>3-Updating the assessment methods and measuring the level of students.<br>4- Encouraging e-learning.<br>5-Providing the student with the skills required by the dental profession and the changes of the times. |
| <b>1. Educational Institution</b>  | Higher education - College of Dentistry   |
| <b>2. University Department/Centre</b>   | College of Dentistry, Prosthesis  |
| <b>3. The name/code of the Academic Programme</b>  | 210PR   |
| <b>4. Programme included</b>   | Prosthodontics  |
| <b>5. Available attendance formats</b>   | Student attendance at lectures and labs   |
| <b>6. Semester /Year</b>   | Two semesters/ Second Stage   |
| <b>7. Number of hours (total)</b>  | 30 theoretical hours and 120 practical hours  |
| <b>8. Preparation Date of this Description</b>   | 2021-2022-.   |
| <b>9. Objectives of the Academic Programme</b>   |   |
| <ul style="list-style-type: none"> <li>• Generally, the introduction of dental material, is one of the most important materials that students will continue to study for the next four years</li> <li>• The definition of terms that will be used to explain the Academic Course so that students can understand them correctly</li> <li>• The practical laboratory steps for making dentures and practical laboratory trainings are used and to adapt the materials used in making dentures.</li> </ul> |   |

## **10. Programme outputs and teaching, learning and assessment methods**

### **A. Cognitive Objectives (Knowledge and Understanding)**

- giving the necessary information to deal with materials involved in manufacturing prosthodontics and making complete dentures.
- Providing students with full knowledge, which enable them to master all laboratory steps to for making complete dentures.

### **B. Programme Skill Objectives**

B.1- Describing the Academic Courses, equipment and materials for making denture

B.2-. Teaching students how to use them and following them up step by step while working.

### **Methods of Teaching and Learning**

LCD, lesson, show, data digital cameras, live explanation and handling all the types of materials listed in the curriculum in front of the students after they are divided into groups on the number of days of the week, and all the steps explained in details.

### **Assessment methods**

Practical assessment of each step of the denture making process

Weekly, monthly, half-year and annual examinations.

### **C. Thinking Skills**

C.1 - solve problems

C.2 - able to handle and adapt dental materials with the complete skill to facilitate and master the laboratory of making denture and to respond to student questions and inquiries

C.3 – Live explanation, detailed sacrifice and direct interaction

C.4 - in the making of the denture, students will face difficulties due to their interaction with each other. Firstly, with the dentistry materials, which stimulates student creativity in making dentures.

C.5 - providing work atmosphere and group instructions, which gives students a good environment, that help and alert them to the gaps and errors that they may have made.

### Methods of Teaching and Learning

Theoretical lectures, training and practical explanation. Observing student response within the demonstration rooms

### Assessment methods

Theoretical examinations  
Evaluate each steps of their dentures- making

### 11. Academic Course structure

| Week | Hours | Theoretical content                | Academic Course name | Teaching Method                        | Assessment method                                       |
|------|-------|------------------------------------|----------------------|--|---|
| 1    | 1     | <b>Introduction</b>                | Prosthodontics       | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 2    | 1     | <b>Anatomical landmarks</b>        | Prosthodontics       | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 3    | 1     | <b>Anatomical landmarks</b>        | Prosthodontics       | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 4    | 1     | <b>Complete Denture Impression</b> | Prosthodontics       | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 5    | 1     | <b>Complete Denture Impression</b> | Prosthodontics       | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 6    | 1     | <b>Complete Denture Impression</b> | Prosthodontics       | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |



| <b>Week</b> | <b>Hours</b> | <b>Theoretical content</b>                               | <b>Academic Course name</b> | <b>Teaching Method</b>                 | <b>Assessment method</b>                                |
|-------------|--------------|--|-----------------------------|--|---|
| 7           | 1            | <b>Record Base</b>                                       | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 8           | 1            | <b>Occlusion Rims</b>                                    | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 9           | 1            | <b>Anatomy and Physiology of Temporomandibular Joint</b> | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 10          | 1            | <b>Anatomy and Physiology of Temporomandibular Joint</b> | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 11          | 1            | <b>Maxillomandibular relation</b>                        | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 12          | 1            | <b>Methods of Recording Vertical Relation</b>            | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 13          | 1            | <b>Horizontal Jaw Relation</b>                           | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 14          | 1            | <b>Dental Articulators</b>                               | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |

| <b>Week</b> | <b>Hours</b> | <b>Theoretical content</b>             | <b>Academic Course name</b> | <b>Teaching Method</b>                 | <b>Assessment method</b>                                |
|-------------|--------------|--|-----------------------------|--|---|
| 15          | 1            | <b>Face – Bow</b>                      | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 16          | 1            | <b>Mounting</b>                        | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 17          | 1            | <b>Selection of Artificial Teeth</b>   | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 18          | 1            | <b>Selection of Posterior Teeth</b>    | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 19          | 1            | <b>Arrangement of Artificial Teeth</b> | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 20          | 1            | <b>Arrangement of Posterior Teeth</b>  | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 21          | 1            | <b>Waxing and Carving</b>              | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |

| <b>Week</b> | <b>Hours</b> | <b>Theoretical content</b>                         | <b>Academic Course name</b> | <b>Teaching Method</b>                 | <b>Assessment method</b>                                |
|-------------|--------------|--|-----------------------------|--|---|
| 22          | 1            | <b>Complete Denture Occlusion</b>                  | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 23          | 1            | <b>Complete Denture Occlusion</b>                  | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 24          | 1            | <b>Processing of The Denture (Flasking)</b>        | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 25          | 1            | <b>Occlusal Correction</b>                         | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 26          | 1            | <b>Finishing and Polishing of Complete Denture</b> | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 27          | 1            | <b>Repair of Complete Denture</b>                  | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 28          | 1            | <b>Repair of Complete Denture</b>                  | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 29          | 1            | <b>Relining and Rebasing</b>                       | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 30          | 1            | <b>Relining and Rebasing</b>                       | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |

| <b>11. Academic Course structure (practical side)</b> |              |   |                             |                        |   |
|---|--------------|---|-----------------------------|------------------------|---|
| <b>Week</b>   | <b>Hours</b> | <b>Theoretical content</b>  | <b>Academic Course name</b> | <b>Teaching Method</b> | <b>Assessment method</b>                                |
| 1   | 4            | Clinical and laboratory steps of complete denture construction  | Prosthodontics              | Practical laboratories | Quarterly, half-year and final practical and oral exams |
| 2   | 4            | Taking primary impression on metal mould by impression compound and beading and boxing and pouring by dental plaster. | Prosthodontics              | Practical laboratories | Quarterly, half-year and final practical and oral exams |
| 3   | 4            | Pouring on rubber mould (upper and lower primary cast).   | Prosthodontics              | Practical laboratories | Quarterly, half-year and final practical and oral exams |
| 4   | 4            | Description of anatomical landmarks (maxillary and mandibular).   | Prosthodontics              | Practical laboratories | Quarterly, half-year and final practical and oral exams |
| 5   | 4            | Demonstration of making upper and lower special tray by cold cure acrylic.  | Prosthodontics              | Practical laboratories | Quarterly, half-year and final practical and oral exams |
| 6   | 4            | Finishing and polishing of special tray and evaluation  | Prosthodontics              | Practical laboratories | Quarterly, half-year and final practical and oral exams |
| 7   | 4            | Demonstration of taking final impression and construction of master cast.   | Prosthodontics              | Practical laboratories | Quarterly, half-year and final practical and oral exams |
| 8   | 4            | Evaluation of record base construction +finishing and polishing.  | Prosthodontics              | Practical laboratories | Quarterly, half-year and final practical and oral exams |

| <b>Week</b> | <b>Hours</b> | <b>Theoretical content</b>   | <b>Academic Course name</b> | <b>Teaching Method</b> | <b>Assessment method</b>                                |
|-------------|--------------|--|-----------------------------|------------------------|---|
| 9           | 4            | Bite rims construction (upper and lower).  | Prosthodontics              | Practical laboratories | Quarterly, half-year and final practical and oral exams |
| 10          | 4            | Demonstration of facebow and fox bite description of types of jaw relation.                | Prosthodontics              | Practical laboratories | Quarterly, half-year and final practical and oral exams |
| 11          | 4            | Description about the methods of recording vertical jaw relation                           | Prosthodontics              | Practical laboratories | Quarterly, half-year and final practical and oral exams |
| 12          | 4            | Description about the methods of recording horizontal jaw relation.                        | Prosthodontics              | Practical laboratories | Quarterly, half-year and final practical and oral exams |
| 13          | 4            | Demonstration about The types of articulator's parts, its uses and action.                 | Prosthodontics              | Practical laboratories | Quarterly, half-year and final practical and oral exams |
| 14          | 4            | Mounting of upper and Lower casts on articulators.   | Prosthodontics              | Practical laboratories | Quarterly, half-year and final practical and oral exams |
| 15          | 4            | Evaluation, mounting of upper and lower casts on articulators (continue).                  | Prosthodontics              | Practical laboratories | Quarterly, half-year and final practical and oral exams |
| 16          | 4            | Description the methods of selection of anterior and posterior teeth for complete denture. | Prosthodontics              | Practical laboratories | Quarterly, half-year and final practical and oral exams |
| 17          | 4            | Demonstration about arrangement of upper and lower anterior teeth.                         | Prosthodontics              | Practical laboratories | Quarterly, half-year and final practical and oral exams |
| 18          | 4            | Evaluation, arrangement of upper and lower anterior teeth (continue).                      | Prosthodontics              | Practical laboratories | Quarterly, half-year and final practical and oral exams |
| 19          | 4            | Demonstration about arrangement of upper and lower posterior teeth                         | Prosthodontics              | Practical laboratories | Quarterly, half-year and final practical and oral exams |

| <b>Week</b> | <b>Hours</b> | <b>Theoretical content</b>  | <b>Academic Course name</b> | <b>Teaching Method</b> | <b>Assessment method</b>                                |
|-------------|--------------|---|-----------------------------|------------------------|---|
| 20          | 4            | Arrangement of upper and lower posterior teeth (continue).                        | Prosthodontics              | Practical laboratories | Quarterly, half-year and final practical and oral exams |
| 21          | 4            | Evaluation, arrangement of posterior teeth and carving of posterior palatal seal. | Prosthodontics              | Practical laboratories | Quarterly, half-year and final practical and oral exams |
| 22          | 4            | Demonstration about carving and waxing of upper complete denture.                 | Prosthodontics              | Practical laboratories | Quarterly, half-year and final practical and oral exams |
| 23          | 4            | Evaluation, carving and waxing of lower complete denture.                         | Prosthodontics              | Practical laboratories | Quarterly, half-year and final practical and oral exams |
| 24          | 4            | Flasking and investment of the denture.   | Prosthodontics              | Practical laboratories | Quarterly, half-year and final practical and oral exams |
| 25          | 4            | Wax elimination, packing and curing of heat cure acrylic.                         | Prosthodontics              | Practical laboratories | Quarterly, half-year and final practical and oral exams |
| 26          | 4            | Deflasking, finishing and polishing of upper complete denture.                    | Prosthodontics              | Practical laboratories | Quarterly, half-year and final practical and oral exams |
| 27          | 4            | Deflasking, finishing and polishing of lower complete denture.                    | Prosthodontics              | Practical laboratories | Quarterly, half-year and final practical and oral exams |
| 28          | 4            | Demonstration of selective grinding.  | Prosthodontics              | Practical laboratories | Quarterly, half-year and final practical and oral exams |
| 29          | 4            | Repair of fracture denture.   | Prosthodontics              | Practical laboratories | Quarterly, half-year and final practical and oral exams |
| 30          | 4            | Repair of missing tooth.  | Prosthodontics              | Practical laboratories | Quarterly, half-year and final practical and oral exams |

|   |  |
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| <b>12. Infrastructure</b>   |  |
| 1-Books required reading  | Syllabus of complete denture (textbook of complete denture)<br>Dental laboratory technology for removable prosthodontics<br>Iraqi virtual library  |
| 2-Main reference sources<br>A - Recommended books and references (scientific journals, reports...). | Articles • S. Yamashita, M. Shimizu, and H. Katada, "A newly proposed method to predict optimum occlusal vertical dimension," Journal of Prosthodontics, vol. 24, no. 4, pp. 287–290, 2015. • J. Abduo and K. Lyons, "Clinical considerations for increasing occlusal vertical dimension: a review," Australian Dental Journal, vol. 57, no. 1, pp. 2–10, 2012 • R. Matsuda, Y. Yoneyama, M. Morokuma, and C. Ohkubo, "The influence of vertical dimension of occlusion changes on the electroencephalograms of complete denture wearers," Journal of Prosthodontic Research, vol. 58, no. 2, pp. 121–126, 2014. |
| b-Electronic references, Internet sites...  | The faculty website  |
| <b>13. The development of the curriculum plan</b>   | 1-Development of academic content by deletion, addition and replacement.<br>2-Using modern methods of teaching appropriate to the level of learners from time to time.<br>3-Updating the assessment methods and measuring the level of students.<br>4- Encouraging e-learning.<br>5-Providing the student with the skills required by the dental profession and the changes of the times.  |

|   |  |
|---|--|
| <b>1. Educational Institution</b>                 | Ministry of Higher Education and Scientific Research |
| <b>2. University Department/Centre</b>            | Dentistry  |
| <b>3. The name/Code of the Academic Programme</b> | Embryology 211EL                                     |
| <b>4. Programme included</b>                      | Dentistry  |
| <b>5. Academic Study System</b>                   | Theoretical lectures and practical labs              |
| <b>6. Academic Programme/Year</b>                 | Two semesters /second stage                          |
| <b>7. Number of hours (total)</b>                 | 30 theoretical hours and 60 practical hours          |
| <b>8. Preparation Date of this Description</b>    | 2021-2022-.  |

#### **9. Aims of the Academic Programme**

Introducing the students to the stages of formation and development of the fetus and understanding the congenital anomalies associated with this development.

#### **10. Programme outputs and teaching, learning and assessment methods**

##### **A. Cognitive Objectives (Knowledge and Understanding)**

- A.1- Stages of development of the embryo
- A.2 - Distortions that occur during the development of the embryo
- A.3 - Modern methods for diagnosing distortions
- A.4 -
- A.5 -
- A.6 -

##### **B. Programme Skill Objectives**

- B.1- Ability to dissection of laboratory animals (and extract embryos from them)
- B.2 - Making slides with fetal slips
- B.3 -
- B.4 -

##### **Methods of Teaching and Learning**

Data show  
Seminar  
Anatomy by lecturers and students  
Engaging students in seminar discussions



### **Assessment Method**

Daily and quarterly examinations  
Half-year and end-of-year exams  
Assessment of seminars

### **C. Thinking Skills**

C.1 – Ability to extract embryos from laboratory animals  
C.2 - Participation in the evaluation of other student seminars  
C.3- Engagement of students in the development of a question for other groups  
C.4 -

### **Methods of Teaching and Learning**

Data show  
Seminar  
Anatomy by teaching and  
Engaging students in seminar discussions

### **Assessment Methods**

Daily and quarterly examinations  
Half-year and end-of-year exams  
Assessment of seminars

### **D. General and gained skills (other skills related to employability and personal development).**

D.1 - Subject-specific videos  
Photos  
Samples were brought by the students  
D.2 -  
D.3 -  
D.4 -

| <b>11. Academic Course Structure</b> |              |   |                             |  |  |
|--------------------------------------|--------------|---|-----------------------------|--|--|
| <b>Week</b>                          | <b>Hours</b> | <b>Theoretical content</b>                        | <b>Academic Course name</b> | <b>Teaching Method</b>                 | <b>Assessment method</b>   |
| 1                                    | 1            | First week of development and ovulation           | Embryology                  | Data show slides                       | Daily, quarterly, half-year and end-of-year exams and seminars assessments |
| 2                                    | 1            | Infertility and implantation                      | Embryology                  | Data show slides                       | Daily, quarterly, half-year and end-of-year exams and seminars assessments |
| 3                                    | 1            | Second week of development, Bilaminar germ layers | Embryology                  | Data show slides                       | Daily, quarterly, half-year and end-of-year exams and seminars assessments |
| 4                                    | 1            | Third weeks Of embryo development                 | Embryology                  | Data show slides                       | Daily, quarterly, half-year and end-of-year exams and seminars assessments |
| 5                                    | 1            | Development of fetus and placenta                 | Embryology                  | Data show slides/<br>Experimental work | Experimental work on pregnant animal                                       |
| 6                                    | 1            | Twin fetus  | Embryology                  | Data show slides                       | Daily, quarterly, half-year and end-of-year exams and seminars assessments |
| 7                                    | 1            | Third to eight weeks: embryonic period            | Embryology                  | Data show slides                       | Daily, quarterly, half-year and end-of-year exams and seminars assessments |
| 8                                    | 1            | Development of the head and neck                  | Embryology                  | Data show slides                       | Daily, quarterly, half-year and end-of-year exams and seminars assessments |

| <b>Week</b> | <b>Hours</b> | <b>Theoretical content</b> | <b>Academic Course name</b> | <b>Teaching Method</b>                  | <b>Assessment method</b>   |
|-------------|--------------|----------------------------|-----------------------------|---|--|
| 9           | 1            | Pharyngeal arch            | Embryology                  | Data show slides                        | Daily, quarterly, half-year and end-of-year exams and seminars assessments |
| 10          | 1            | Congenital anomalies       | Embryology                  | Data show slides                        | Daily, quarterly, half-year and end-of-year exams and seminars assessments |
| 11          | 1            | Pharyngeal pouch           | Embryology                  | Data show slides                        | Daily, quarterly, half-year and end-of-year exams and seminars assessments |
| 12          | 1            | Pharyngeal cleft           | Embryology                  | Data show slides                        | Daily, quarterly, half-year and end-of-year exams and seminars assessments |
| 13          | 1            | Development of the tongue  | Embryology                  | Data show slides and microscopic slides | Daily, quarterly, half-year and end-of-year exams and seminars assessments |
| 14          | 1            | Development of the palate  | Embryology                  | Data show slides and microscopic slides | Daily, quarterly, half-year and end-of-year exams and seminars assessments |
| 15          | 1            | Nasal chamber              | Embryology                  | Data show slides                        | Daily, quarterly, half-year and end-of-year exams and seminars assessments |
| 16          | 1            | Congenital malformation    | Embryology                  | Data show slides                        | Daily, quarterly, half-year and end-of-year exams and seminars assessments |

| <b>Week</b> | <b>Hours</b> | <b>Theoretical content</b> | <b>Academic Course name</b> | <b>Teaching Method</b> | <b>Assessment method</b>   |
|-------------|--------------|----------------------------|-----------------------------|------------------------|--|
| 17          | 1            | Pharyngeal arch            | Embryology                  | Seminar discussion     | Daily, quarterly, half-year and end-of-year exams and seminars assessments |
| 18          | 1            | Congenital anomalies       | Embryology                  | Seminar discussion     | Daily, quarterly, half-year and end-of-year exams and seminars assessments |
| 19          | 1            | Pharyngeal pouch           | Embryology                  | Data show slides       | Daily, quarterly, half-year and end-of-year exams and seminars assessments |
| 20          | 1            | Pharyngeal cleft           | Embryology                  | Seminar discussion     | Daily, quarterly, half-year and end-of-year exams and seminars assessments |
| 21          | 1            | Development of the tongue  | Embryology                  | Data show slides       | Daily, quarterly, half-year and end-of-year exams and seminars assessments |
| 22          | 1            | Development of the palate  | Embryology                  | Data show slides       | Daily, quarterly, half-year and end-of-year exams and seminars assessments |
| 23          | 1            | Nasal chamber              | Embryology                  | Data show slides       | Daily, quarterly, half-year and end-of-year exams and seminars assessments |
| 24          | 1            | Congenital malformation    | Embryology                  | Data show slides       | Daily, quarterly, half-year and end-of-year exams and seminars assessments |

| <b>Week</b> | <b>Hours</b> | <b>Theoretical content</b>       | <b>Academic Course name</b> | <b>Teaching Method</b> | <b>Assessment method</b>   |
|-------------|--------------|----------------------------------|-----------------------------|------------------------|--|
| 25          | 1            | Digestive system: Pharyngeal Gut | Embryology                  | Data show slides       | Daily, quarterly, half-year and end-of-year exams and seminars assessments |

|    |   |                                 |            |                    |  |
|----|---|---------------------------------|------------|--------------------|--|
| 26 | 1 | Foregut                         | Embryology | Data show slides   | Daily, quarterly, half-year and end-of-year exams and seminars assessments |
| 27 | 1 | Caulomic cavity and Mesenteries | Embryology | Data show slides   | Daily, quarterly, half-year and end-of-year exams and seminars assessments |
| 28 | 1 | Nervous system: Development     | Embryology | Data show slides   | Daily, quarterly, half-year and end-of-year exams and seminars assessments |
| 29 | 1 | Spinal cord                     | Embryology | Data show slides   | Daily, quarterly, half-year and end-of-year exams and seminars assessments |
| 30 | 1 | Congenital malformation         | Embryology | Seminar discussion | Daily, quarterly, half-year and end-of-year exams and seminars assessments |

|  |   |
|--|---|
| <b>12. Infrastructure</b>  |   |
| 1-Books required reading   | TEXTBOOKS OF MEDICAL EMBRYOLOGY<br>Langman's Medical Embryology. 12th Edition.  |
| 2-Main reference sources<br>a- - Recommended books and references (scientific journals, reports...). |   |
| b-Electronic references, Internet sites...   | The faculty website   |
| <b>13. The development of the curriculum plan</b>  | 1-Development of academic content by deletion, addition and replacement.<br>2-Using modern methods of teaching appropriate to the level of learners from time to time.<br>3-Updating the assessment methods and measuring the level of students.<br>4- Encouraging e-learning.<br>5-Providing the student with the skills required by the dental profession and the changes of the times. |

**Laboratory sessions**

| No.          | Title of the sessions                                |                                  | Hours     |
|--------------|--|----------------------------------|-----------|
| 1            | First week of development ovulation and implantation | data show projector              | 2         |
| 2            | Fusion of Oocyte and sperm cell membranes            | data show projector              | 2         |
| 3            | Second week of development: bilaminar germ layer     | Video presentation               | 2         |
| 4            | Development of the fetus                             | data show projector              | 2         |
| 5            | Third to eight weeks: embryonic period               | data show projector              | 2         |
| 6            | Third week of development trilaminar germ layer      | Video presentation               | 2         |
| 7            | Development of precordial plate and primitive streak | Video presentation               | 2         |
| 8            | Development of placenta and its functions            | Video presentation               | 2         |
| 9            | Types of Twins                                       | Video presentation               | 2         |
| 10           | Pharyngeal arch                                      | data show projector              | 2         |
| 11           | Pharyngeal pouch and cleft                           | data show projector              | 2         |
| 12           | Development of the face                              | data show projector              | 2         |
| 13           | Development of the Tongue                            | Microscopic slides and data show | 2         |
| 14           | Development of the Palate                            | Microscopic slides and data show | 2         |
| 15           | Facial anomalies                                     | Video and Data show figures      | 2         |
| 16           | Development of Respiratory system                    | Microscopic slides and data show | 2         |
| 17           | Congenital anomalies of Respiratory System           | Data show figures                | 2         |
| 18           | Development of Digestive system                      | Data show figures                | 2         |
| 19           | Congenital anomalies of Digestive system             | Video and Data show figures      | 2         |
| 20           | Development of nervous system                        | Data show figures                | 2         |
| 21           | Congenital anomalies of nervous system               | Data show figures                | 2         |
| 22           | Development of muscular system                       | Data show figures                | 2         |
| 23           | Congenital anomalies of muscular system              | Data show figures                | 2         |
| 24           | Development of skeletal system                       | Data show figures                | 2         |
| 25           | Congenital anomalies of skeletal system              | Data show figures                | 2         |
| 26           | Development of cardiovascular system                 | Data show figures                | 2         |
| 27           | Congenital anomalies of cardiovascular               | Video                            | 2         |
| 28           | Development of endocrine                             | Video                            | 2         |
| 29           | Congenital anomalies of endocrine                    | Data show figures                | 2         |
| 30           | Molecules related to developmental                   | Video and Data show Figures      | 2         |
| <b>Total</b> |  |                                  | <b>60</b> |

|  |   |
|--|---|
| <b>1. Institution</b>  | Higher education and scientific research    |
| <b>2. University Department/Centre</b>   | Science – Basic Science                     |
| <b>3. The name/Code of the Academic Programme</b>  | Biochemistry / BC 212                       |
| <b>4. Programme included</b>   | Biochemistry and Human Health               |
| <b>5. Academic Study System</b>  | Lectures and labs                           |
| <b>6. Academic Programme/Year</b>  | Two semesters/second stage                  |
| <b>7. Number of hours (total)</b>  | 60 theoretical hours and 60 practical hours |
| <b>8. Preparation Date of this Description</b>   | 2021-2022-.                                 |
| <b>9.Objectives of the Academic Programme</b>  |   |
| Introduction to Biochemistry, understanding its functions, variables, irregular levels and input life, pathological, and methods for measuring their levels. |   |

#### **10.Programme outputs and teaching, learning and assessment methods A.**

##### **Cognitive Objectives (Knowledge and Understanding)**

- A.1 - teach students the relationship of general and non-organic chemistry to humans
- A.2 - understand the variables that occur when the material is changed to the body's health
- A.3 - the relationship of acid and base to blood and its effects on organ functions
- A.4 - solution and system for blading
- A.5 - pollution and its impact on human health and the environment
- A.6 -radiation chemistry and radiological effects on human health

**B. Programme Skill Objectives**

- B.1 -Depending on the teaching method used, e.g., lecture discussion and making questions.  
B.2 - Use laboratories and practical experiments to increase student understanding and see this in practice  
B.3 - Method of surprise exams and quizzes.

**Methods of Teaching and Learning**

The teaching method changes depending on student understanding and interaction with the lesson. A discussion, investigation or inference methods are used. All methods may be used at the same time, as well as using laboratories and practical experiments to increase student understanding and awareness.

**Assessment Methods**

Monthly examinations, quizzes and student attendance, in addition to its interaction with the material and its activity during lessons.

**C. Thinking Skills**

- C.1 – Investigation
- C.2 - Discussion
- C.3 - Laboratory experiments and reports
- C.4 - Induction

**Methods of Teaching and Learning**

All education methods used such as Pure Point, presentation, laboratory reports as well as experiments, the process and above

**Assessment Methods**

Methods of monthly exams, oral and final examinations, short examinations and laboratory reports, attendance and absence records of class.

**D. General and gained skills (Other skills related to employability and personal development).**

- D.1 – Updating and developing lectures annually
- D.2 - Following-up of published research on the subjects
- D.3 - undertaking quarterly and annual research through personal and collective efforts and publish them in Arab and global magazines
- D.4 - Discussing the curriculum with relevant and competent persons in order to reach the best of them.



| <b>11. Academic Course structure</b> |              |  |                             |  |   |
|--------------------------------------|--------------|--|-----------------------------|--|---|
| <b>Week</b>                          | <b>Hours</b> | <b>Theoretical content</b>   | <b>Academic Course name</b> | <b>Teaching Method</b>                 | <b>Assessment method</b>                    |
| 1                                    | 2            | Enzymes:<br>Definition<br>Terminology: substrate and cofactor; coenzyme... etc<br>Classification<br>Kinetic properties of enzyme<br>Enzyme inhibition Model of enzyme – substrate binding Enzyme regulation<br>Effect of pH and<br>Temp. on enzyme activity<br>Plasma enzymes in diagnosis<br>GPT and GOT<br>LDH<br>Isoenzymes | Biochemistry                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 2                                    | 2            | Classification   | Biochemistry                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 3                                    | 2            | Kinetic properties of enzyme   | Biochemistry                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 4                                    | 2            | Enzyme inhibition  | Biochemistry                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 5                                    | 2            | Model of enzyme – substrate binding  | Biochemistry                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 6                                    | 2            | Plasma enzymes in diagnosis  | Biochemistry                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 7                                    | 2            | Lipid:<br>Lipid classes Lipid metabolism: Triacylglycerol synthesis<br>F.A. degradation<br>F.A. biosynthesis Regulation of F.A. metabolism in mammals cholesterol metabolism   | Biochemistry                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |

| <b>Week</b> | <b>Hours</b> | <b>Theoretical content</b>   | <b>Academic Course name</b> | <b>Teaching Method</b>                 | <b>Assessment method</b>                    |
|-------------|--------------|--|-----------------------------|--|---|
| 8           | 2            | Lipid metabolism:  | Biochemistry                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 9           | 2            | Triacylglycerol synthesis  | Biochemistry                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 10          | 2            | F.A. degradation   | Biochemistry                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 11          | 2            | Carbohydrate metabolism:<br>Glycogen metabolism (synthesis & degradation)<br>Glycolysis and its regulation<br>Gluconeogenesis<br>Metabolism of other important sugars<br>Citric acid cycle and regulation<br>Electron transport system<br>Oxidative phosphorylation<br>Oxidative stress<br>Glucose - 6 -phosphate dehydrogenase efficiency | Biochemistry                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 12          | 2            | Glycogen metabolism (synthesis & degradation)  | Biochemistry                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |

| Week | Hours | Theoretical content   | Academic Course name | Teaching Method                        | Assessment method                           |
|------|-------|---|----------------------|--|---|
| 13   | 2     | Glycolysis and its Regulation   | Biochemistry         | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 14   | 2     | Gluconeogenesis   | Biochemistry         | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 15   | 2     | Metabolism of other important sugars  | Biochemistry         | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 16   | 2     | Citric acid cycle and Regulation  | Biochemistry         | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 17   | 2     | Citric acid cycle and Regulation  | Biochemistry         | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 18   | 2     | Electron transport system   | Biochemistry         | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 19   | 2     | Vitamins:<br>Definition<br>The major groups(fat& water - soluble vitamins) Study the individual vitamins under certain general heading: sources, chemistry, metabolism, physiological functions, deficiency diseases, daily requirements, hypervitaminosis, vitamin antagonists, vitamin A,D,E,K,C &B, niacin, pyridoxine, pantothenic acid ,biotin, folic acid | Biochemistry         | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 20   | 2     | The major groups (fat& water- soluble vitamins)   | Biochemistry         | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |

| Week | Hours | Theoretical content   | Academic Course name | Teaching Method                        | Assessment method                           |
|------|-------|---|----------------------|--|---|
| 21   | 2     | Sources, chemistry, metabolism  | Biochemistry         | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 22   | 2     | Daily requirements, hypervitaminosis  | Biochemistry         | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 23   | 2     | Vitamin A,D,E,K,C &B, niacin  | Biochemistry         | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 24   | 2     | <p>Protein and amino acids metabolism</p> <p>Dynamic equilibrium and nitrogen balance Essential and non - essential A. As</p> <p>Nitrogen catabolism of A. As</p> <p>Formation of NH<sub>3</sub> and urea</p> <p>Metabolism and fate of NH<sub>3</sub> in the body</p> <ol style="list-style-type: none"> <li>1. Formation of urea (urea cycle) inherited disorder associated with urea cycle</li> <li>2. . Glutamine formation</li> <li>3. Amination of alpha - ketoacids</li> </ol> <p>Fate of carbon skeletons break down of C, H, O. These pathways converge to form seven intermediate products</p> <ol style="list-style-type: none"> <li>a. . Glycogenic amino acids</li> <li>b. Ketogenic amino acids Amino acids degradation and synthesis</li> <li>c. A. As forming pyruvate</li> <li>d. A. As forming fumarate</li> <li>e. A. As forming acetyl -coA or acetoacetyl -coA</li> <li>f. A.As forming succinyl – coA</li> </ol> <ol style="list-style-type: none"> <li>9. Decarboxylation reaction of amino acids and biogenic amines</li> <li>10. Other nitrogen containing compounds which produced from A.As</li> <li>11. Metabolic defects in A.As metabolism</li> </ol> | Biochemistry         | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |

| <b>Week</b> | <b>Hours</b> | <b>Theoretical content</b>                         | <b>Academic Course name</b> | <b>Teaching Method</b>                 | <b>Assessment method</b>                    |
|-------------|--------------|--|-----------------------------|--|---|
| 25          | 2            | Dynamic equilibrium and nitrogen balance           | Biochemistry                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 26          | 2            | Essential and non- essential A.As                  | Biochemistry                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 27          | 2            | Nitrogen catabolism of A.As                        | Biochemistry                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 28          | 2            | Formation of NH <sub>3</sub> and urea              | Biochemistry                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 29          | 2            | Metabolism and fate of NH <sub>3</sub> in the body | Biochemistry                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 30          | 2            | a. Formation of urea (urea cycle)                  | Biochemistry                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 31          | 2            | b. Glutamine formation                             | Biochemistry                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 32          | 2            | c. Amination of alpha- ketoacids                   | Biochemistry                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |

|  |   |
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| <b>12. Infrastructure</b>  |   |
| 1-Books required reading   | Chemical Bases of life, Textbooks of Biochemistry, General Chemistry principle and applications of Inorganic, Organic and Biochemistry<br>Lippincott's Illustrated Reviews Biochemistry   |
| 2-Main reference sources<br>a- - Recommended books and references (scientific journals, reports...). |   |
| b-Electronic references, Internet sites...   | The faculty website   |
| <b>13. The development of the curriculum plan</b>  | 1-Development of academic content by deletion, addition and replacement.<br>2-Using modern methods of teaching appropriate to the level of learners from time to time.<br>3-Updating the assessment methods and measuring the level of students.4- Encouraging e-learning.<br>5-Providing the student with the skills required by the dental profession and the changes of the times. |

### *Laboratory sessions*

| No. | Title of the sessions                      | Hours |
|-----|--|-------|
| 1   | Lab safety                                 | 2     |
| 2   | Sample collection(part1)                   | 2     |
| 3   | Sample collection (part2)                  | 2     |
| 4   | Spectrophotometer                          | 2     |
| 5   | Standard curve                             | 2     |
| 6   | Blood glucose+ HbA1c                       | 2     |
| 7   | Total Protein                              | 2     |
| 8   | Albumin+ Globulin                          | 2     |
| 9   | Troponin                                   | 2     |
| 10  | Liver function test (Bilirubin)            | 2     |
| 11  | Alkaline Phosphatase                       | 2     |
| 12  | Transaminases (GPT&GOT)                    | 2     |
| 13  | Lipid in blood (cholesterol & lipoprotein) | 2     |
| 14  | Triglyceride                               | 2     |
| 15  | Kidney function Test (urea)                | 2     |

| No.   | Title of the sessions                   | Hours |
|-------|---|-------|
| 16    | Serum creatinine & creatinine clearness | 2     |
| 17    | General Urine Analysis(part1)           | 2     |
| 18    | General Urine Analysis(part2)           | 2     |
| 19    | Uric acid                               | 2     |
| 20    | Amylase in serum+ saliva                | 2     |
| 21    | Creatine phosphokinase                  | 2     |
| 22    | lactate Dehydrogenase                   | 2     |
| 23    | Serum calcium                           | 2     |
| 24    | Serum phosphorus                        | 2     |
| 25    | Serum Na                                | 2     |
| 26    | Serum K                                 | 2     |
| 27    | Serum Iron                              | 2     |
| 28    | Vitamin D                               | 2     |
| 29    | Vitamin C                               | 2     |
| 30    | Acid phosphatase.                       | 2     |
| Total |   | 60    |

|  |  |
|--|--|
| <b>1. Educational Institution</b>  | Ministry of higher Education and Scientific Research |
| <b>2. University Department/Centre</b>   | Basic Science  |
| <b>3. The name/code of the Academic Programme</b>  | General Histology / GH 213                           |
| <b>4. Programme included</b>   | General Histology – Dentistry                        |
| <b>5. Available Academic Courses</b>   | Student attendance is 100% for all academic year     |
| <b>6. Academic Study System/Year</b>   | Two semesters/ second stage                          |
| <b>7. Number of hours (total)</b>  | 60 theoretical hours and 60 practical hours          |
| <b>8. Preparation Date of this Description</b>   | 2021-2022-.  |
| <b>9. Objectives of the Academic Programme</b>   |  |
| Students learn practical and theoretical applications of different body tissues and all body parts |  |

## **10. Programme outputs and teaching, learning and assessment methods**

### **A. Cognitive Objectives (Knowledge and Understanding)**

A.1 - Explain the structures of different tissues and organs of the body

A.2 - Use and draw simple diagrams on the board

A.3 - Use show data to view different segments of body organ tissues in several segments and directions.

A.4 -

A.5 -

A.6 -

### **B. Programme Skill Objectives**

B.1 – Preparing tissue slice for different body segments

B.2 - Using optical microscopes to examine and distinguish different tissues and organs of the body

B.3 -

B.4 -

### **Methods of Teaching and Learning**

Interactive method

### **Assessment Methods**

1. Short daily exams - practical and theoretical exams
2. Quarterly, half-year and final examinations
3. Seminars and discussions in practical lessons

### **C. Thinking Skills**

C.1 - View different parts of body organs and tissues and consider how to differentiate between them and their types.

C.2 -

C.3 -

C.4 -

### **Methods of Teaching and Learning**



### **Assessment Methods**

1. short daily exams - practical and theoretical exams
2. Quarterly, half-year and final examinations
3. Seminars and discussions in practical lessons

### **D - General and gained skills (other skills related to employability and personal development).**

- D.1 - Periodic discussions in various tissue applications
- D.2 - Using optical microscopes to examine and distinguish tissue from the body's organs
- D.3 - Preparing microscopic clips for different parts of the body
- D.4 -

| <b>11. Academic Course structure</b> |              |                                   |                             |  |   |
|--------------------------------------|--------------|-----------------------------------|-----------------------------|--|---|
| <b>Week</b>                          | <b>Hours</b> | <b>Theoretical content</b>        | <b>Academic Course name</b> | <b>Teaching Method</b>                 | <b>Assessment method</b>                    |
| 1                                    | 2            | Introduction to general histology | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 2                                    | 2            | Resp. system: respiratory portion | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 3                                    | 2            | Resp. system: respiratory portion | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 4                                    | 2            | Urinary system: Nephrons          | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 5                                    | 2            | Urinary system: Ureter &Bladder   | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 6                                    | 2            | Skin: Epidermis                   | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 7                                    | 2            | Skin: Dermis                      | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 8                                    | 2            | Skin glands, hair, nail           | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 9                                    | 2            | Hemopoiesis, Bone marrow          | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |

| <b>Week</b> | <b>Hours</b> | <b>Theoretical content</b> | <b>Academic Course name</b> | <b>Teaching Method</b>                 | <b>Assessment method</b>                    |
|-------------|--------------|----------------------------|-----------------------------|--|---|
| 10          | 2            | Hemopoiesis: Blood cells   | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 11          | 2            | Circulatory System         | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 12          | 2            | Circulatory System         | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 13          | 2            | Lymphoid System            | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 14          | 2            | Lymphoid system            | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 15          | 2            | Nervous System             | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 16          | 2            | Nervous System             | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 17          | 2            | Nervous system             | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 18          | 2            | Endocrine system           | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 19          | 2            | Endocrine system           | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |

| <b>Week</b> | <b>Hours</b> | <b>Theoretical content</b> | <b>Academic Course name</b> | <b>Teaching Method</b>                 | <b>Assessment method</b>                    |
|-------------|--------------|----------------------------|-----------------------------|--|---|
| 20          | 2            | Endocrine system           | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 21          | 2            | Digestive system           | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 22          | 2            | Digestive system           | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 23          | 2            | Digestive system           | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 24          | 2            | Digestive system           | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 25          | 2            | Male Reproductive system   | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 26          | 2            | Male Reproductive system   | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 27          | 2            | Female reproductive system | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 28          | 2            | Female reproductive system | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 29          | 2            | Sense Organ (Eye)          | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 30          | 2            | Sense Organ (Ear)          | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |

| <b>12. Infrastructure</b>  |  |
|--|--|
| 1-Books required reading   | Junqueira's Basic Histology TEXT & ATLAS<br>Anthony L. MESCHER   |
| 2-Main reference sources   |  |
| a- Recommended books and references (scientific journals, reports...). |  |
| b-Electronic references, Internet sites...                             | The faculty website  |
| <b>13. The development of the curriculum plan</b>                      | <p>1-Development of academic content by deletion, addition and replacement.</p> <p>2-Using modern methods of teaching appropriate to the level of learners from time to time.</p> <p>3-Updating the assessment methods and measuring the level of students.</p> <p>4- Encouraging e-learning.</p> <p>5-Providing the student with the skills required by the dental profession and the changes of the times.</p> |

### *Laboratory sessions*

| <b>No.</b> | <b>Title of the sessions</b>                      | <b>Hours</b> |
|------------|---|--------------|
| 1          | Slides of types of epith. Tissue                  | 2            |
| 2          | Slides of types of blood cells                    | 2            |
| 3          | Slides of larynx & trachea                        | 2            |
| 4          | Slides of lungs, bronchioles                      | 2            |
| 5          | Slides of kidney                                  | 2            |
| 6          | Slides of ureter & urinary bladder                | 2            |
| 7          | Slides of layers of epidermis                     | 2            |
| 8          | Slides of layers of dermis                        | 2            |
| 9          | Slides of hair, skin glands                       | 2            |
| 10         | Slides of bone marrow types                       | 2            |
| 11         | Slides of blood cells development                 | 2            |
| 12         | Slides of large (aorta), small artery             | 2            |
| 13         | Slides of medium sized vein                       | 2            |
| 14         | Slides of lymph nodes, palatine tonsils           | 2            |
| 15         | Slides of thymus & spleen                         | 2            |
| 16         | Slides of, nerve fibers, spinal cord              | 2            |
| 17         | Slides of spinal ganglia, cerebrum, cerebellum    | 2            |
| 18         | Slides of pituitary, thyroid glands               | 2            |
| 19         | Slides of parathyroid, adrenal glands             | 2            |
| 20         | Slides of pineal gland, endocrine pancreas        | 2            |
| 21         | Slides of tongue, salivary glands.                | 2            |
| 22         | Slides of esophagus, stomach                      | 2            |
| 23         | Slides of duodenum, ileum, colon                  | 2            |
| 24         | Slides of appendix, liver, pancreas, gall bladder | 2            |
| 25         | Slides of testis duct of the epididymis.          | 2            |
| 26         | Slides of prostate gland, seminal vesicle, penis  | 2            |
| 27         | Slides of ovary, corpus luteum, uterus            | 2            |
| 28         | Slides of placenta, vagina, mammary gland         | 2            |
| 29         | Slides of vertical section of cornea, retina      | 2            |
| 30         | Slides of vertical section of inner ear           | 2            |
| Total      |   | 60           |

|   |  |
|---|--|
| <b>1. Educational Institution</b>                 | University of Baghdad                              |
| <b>2. University Department/Centre</b>            | College of Dentistry                               |
| <b>3. The name/Code of the Academic Programme</b> | General histology                                  |
| <b>4. Programme included</b>                      | General histology of human body                    |
| <b>5. Available Academic Courses</b>              | Lectures and labs                                  |
| <b>6. Academic Study System /Year</b>             | The first and second semesters of the second stage |
| <b>7. Number of hours (total)</b>                 | 30 theoretical hours and 60 practical hours        |
| <b>8. Preparation Date of this Description</b>    | 2021-2022-.  |

### **9. Objectives of the Academic Programme**

The scientific preparation of the students in relation to the general histology, especially in relation to the subject of study.

### **10. Programme outputs and teaching, learning and assessment methods**

#### **A. Cognitive Objectives (Knowledge and Understanding)**

A.1 - Acquiring knowledge about general histology

A.2 - Focusing

#### **B. Programme Skill Objectives**

B.1 - Relationship

B.2 -

B.3 -

#### **Methods of Teaching and Learning**

- Lectures using (Data show, power point)
- Instructional films.
- Student guidance on some websites to use them.
- Practical laboratory on anatomical models

### **Assessment Methods**

Theoretical exams.

- Practical examinations.
- Oral examinations.
- Quiz examinations

### **C. Thinking Skills**

C.1 - Enhance thinking skills through problem-solving learning.

C.2 - Gaining the basic principles of the learning curriculum.

C.3 - Developing student capacity for discussion and dialog.

C.4 – Encouraging students to connect knowledge of human anatomy to their work as a dentist

### **Methods of Teaching and Learning**

- Lessons that research and teach students about ways to confront and solve problems.
- Keep track of how students think, how they make expression, and how quickly they respond.
- Practical lessons on anatomical models.

### **Assessment Methods**

- Theoretical exams.
- Practical examinations.

### **D. General and gained skills (Other skills related to employability and personal development).**

D.1 - Student preparation in practice in terms of applying knowledge gained in general histology.

D.2 - Considering problem solving.

D.3 – Learning of professional ethics.

D.4 – Student gain skills to become a dentist capable of treating patients.

D.5 - Developing student capacity to deal with multiple learning means.



| <b>11. Academic Course structure</b> |              |                                   |                             |  |   |
|--------------------------------------|--------------|-----------------------------------|-----------------------------|--|---|
| <b>Week</b>                          | <b>Hours</b> | <b>Theoretical content</b>        | <b>Academic Course name</b> | <b>Teaching Method</b>                 | <b>Assessment method</b>                    |
| 1                                    | 2            | Introduction to general histology | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 2                                    | 2            | Resp. system: Conduction portion  | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 3                                    | 2            | Resp. system: respiratory portion | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 4                                    | 2            | Urinary system: Nephrons          | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 5                                    | 2            | Urinary system: Ureter &Bladder   | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 6                                    | 2            | Skin: Epidermis                   | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 7                                    | 2            | Skin: Dermis                      | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 8                                    | 2            | Skin glands, hair, nail           | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 9                                    | 2            | Hemopoiesis, Bone marrow          | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |

| <b>Week</b> | <b>Hours</b> | <b>Theoretical content</b> | <b>Academic Course name</b> | <b>Teaching Method</b>                 | <b>Assessment method</b>                    |
|-------------|--------------|----------------------------|-----------------------------|--|---|
| 10          | 2            | Hemopoiesis: Blood cells   | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 11          | 2            | Circulatory System         | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 12          | 2            | Circulatory System         | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 13          | 2            | Lymphoid System            | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 14          | 2            | Lymphoid system            | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 15          | 2            | Nervous System             | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 16          | 2            | Nervous System             | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 17          | 2            | Nervous system             | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 18          | 2            | Endocrine system           | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 19          | 2            | Endocrine system           | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |

| <b>Week</b> | <b>Hours</b> | <b>Theoretical content</b> | <b>Academic Course name</b> | <b>Teaching Method</b>                 | <b>Assessment method</b>                    |
|-------------|--------------|----------------------------|-----------------------------|--|---|
| 20          | 2            | Endocrine system           | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 21          | 2            | Digestive system           | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 22          | 2            | Digestive system           | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 23          | 2            | Digestive system           | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 24          | 2            | Digestive system           | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 25          | 2            | Male Reproductive system   | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 26          | 2            | Male Reproductive system   | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 27          | 2            | Female Reproductive System | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 28          | 2            | Female Reproductive System | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 29          | 2            | Sense Organ (Eye)          | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 30          | 2            | Sense Organ (Ear)          | General histology           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |

| <b>12. Infrastructure</b>  |   |
|--|---|
| 1-Books required reading   | <ol style="list-style-type: none"> <li>1. Jonquiere's Basic histology text Atlas</li> <li>2. Difiore's Atlar of Histology</li> <li>3. Histology A text and Atlas. Micheal H. Ross</li> <li>4. Textbooks of human Histology 5<sup>th</sup> . Ed 2012 by Inderbir Singh</li> </ol>  |
| 2-Main reference sources<br>h- - Recommended books and references (scientific journals, reports...). |   |
| b-Electronic references, Internet sites...   | The faculty website   |
| <b>13. The development of the curriculum plan</b>  | <ol style="list-style-type: none"> <li>1-Development of academic content by deletion, addition and replacement.</li> <li>2-Using modern methods of teaching appropriate to the level of learners from time to time.</li> <li>3-Updating the assessment methods and measuring the level of students.</li> <li>4- Encouraging e-learning.</li> <li>5-Providing the student with the skills required by the dental profession and the changes of the times.</li> </ol> |

**Laboratory sessions**

| No. | Title of the sessions                           | Hours |
|-----|---|-------|
| 1   | Slides of types of epith. Tissue                | 2     |
| 2   | Slides of types of blood cells                  | 2     |
| 3   | Slides of larynx & trachea                      | 2     |
| 4   | Slides of lungs, bronchioles                    | 2     |
| 5   | Slides of kidney                                | 2     |
| 6   | Slides of ureter & urinary bladder              | 2     |
| 7   | Slides of layers of epidermis                   | 2     |
| 8   | Slides of layers of dermis                      | 2     |
| 9   | Slides of hair, skin glands                     | 2     |
| 10  | Slides of bone marrow types                     | 2     |
| 11  | Slides of blood cells development               | 2     |
| 12  | Slides of large (aorta), small artery           | 2     |
| 13  | Slides of medium sized vein                     | 2     |
| 14  | Slides of lymph nodes, palatine tonsils         | 2     |
| 15  | Slides of thymus & spleen                       | 2     |
| 16  | Slides of, nerve fibers, spinal cord            | 2     |
| 17  | Slides of spinal ganglia, cerebrum , cerebellum | 2     |
| 18  | Slides of pituitary, thyroid glands             | 2     |
| 19  | Slides of parathyroid, adrenal glands           | 2     |
| 20  | Slides of pineal gland, endocrine pancreas      | 2     |

| No.   | Title of the sessions                             | Hours |
|-------|---|-------|
| 21    | Slides of tongue, salivary glands.                | 2     |
| 22    | Slides of esophagus, stomach                      | 2     |
| 23    | Slides of duodenum, ileum, colon                  | 2     |
| 24    | Slides of appendix, liver, pancreas, gall bladder | 2     |
| 25    | Slides of testis duct of the epididymis.          | 2     |
| 26    | Slides of prostate gland, seminal vesicle, penis  | 2     |
| 27    | Slides of ovary, corpus luteum, uterus            | 2     |
| 28    | Slides of placenta, vagina, mammary gland         | 2     |
| 29    | Slides of vertical section of cornea, retina      | 2     |
| 30    | Slides of vertical section of inner ear           | 2     |
| Total |   | 60    |

|   |  |
|---|--|
| <b>1. Educational Institution</b>   | Ministry of Higher Education and Scientific Research |
| <b>2. University Department/Centre</b>  | Basic Science  |
| <b>3. The name/Code of the Academic Programme</b>   | Physiology / PH 214                                  |
| <b>4. Programme included</b>  | Theoretical and practical                            |
| <b>5. Available Academic Courses</b>  | Student attendance is 100% for all academic year     |
| <b>6. Academic Study System/year</b>  | Two semesters/ second stage                          |
| <b>7. Number of hours (total)</b>   | 60 theoretical hours and 60 practical hours          |
| <b>8. Preparation Date of this Description</b>  | 2021-2022.   |
| <b>9. Aims of the Academic Programme</b>  |  |
| Introduction to the physiology and students learn how it performs functions for different body parts. |  |

## 10. Programme outputs and teaching, learning and assessment methods

### **A. Cognitive Objectives (Knowledge and Understanding)**

- A.1 - teaching students the functions of body parts
- A.2 - Study of diseases affecting different organs of the body
- A.3-
- A.4-

### **B. Programme Skill Objectives**

- B.1—Student knowledge of body part functions
- B.2-
- B.3-
- B.4 -

### **Methods of Teaching and Learning**

Teaching and learning means and tools

### **Assessment Methods**

Examinations

### **C. Thinking skills**

- C.1 - solving problems
- C.2 – ability to leadership
- C.3 -
- C.4 -

### **Methods of Teaching and Learning**

Teaching and learning means and tools

### **Assessment Methods**

Practical and theoretical exams

### **D. General and gained skills (other skills related to employability and personal development).**

- D.1 - teaching students academic methods for discussion and talks
- D.2 -
- D.3 -
- D.4 -

## 11. Academic Course structure

| week | hours | Academic course name | Theoretical contents   | Teaching method                        | Assessment method                           |
|------|-------|----------------------|--|--|---|
| ١    | ١     | physiology           | <b>Introduction</b> (Function organization of the human body, Cell physiology, Cell membrane , Cell components , Cell Junction)  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٢    | ١     | physiology           | <b>Body fluid</b> (Type of body fluids, Intracellular and extracellular, Constituents of extracellular and intracellular fluids, Major factors contribute to the movement of fluid, Specialized Body Fluids )<br><b>Edema</b> (Types of Edema, Causes of edema, Measurement of body fluid volume, Dehydration, Types of dehydration, Classification, Causes, Signs and Symptoms of Dehydrations)           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٣    | ١     | physiology           | <b>Homeostasis and Transport across cell membrane</b> (Diffusion (passive), Carrier-mediated transport (passive or active), Vesicular transport).  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٤    | 1     | physiology           | <b>ORAL CAVITY and Salivary Glands</b> (Functions of Mouth, Salivary Glands (Structure, Development, Major glands, Minor glands, Clinical correlations, Regulation of Salivary Secretion, Factors Influencing Salivary Flow and Composition) ( <b>Mastication</b> , Deglutition, Bolus Formation for Swallowing, Digestion), ( <b>speech</b> : Definition, Mechanism, Nervous Control, Applied Physiology) | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٥    | ١     | physiology           | <b>Salivary functions and Regulation of Salivary Secretion</b> (Composition of Saliva, Saliva Components, Properties of Saliva, Functions of Saliva, Effect of   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |



|    |   |            |   |  |   |
|----|---|------------|---|--|---|
|    |   |            | Drugs and Chemicals on Salivary Secretion, Maintenance of Tooth Integrity, The Diagnostic Applications of Saliva and forensic uses of saliva, Disadvantages/Limitations of Saliva)  |  |   |
| ٦  | ١ | physiology | <b>Physiology of Blood</b> ( Composition of blood , Hematocrit, Plasma , Functions of blood ), <b>Red blood cells</b> (Genesis of R.B.C, polycythemia, Anemia, Destruction of R.B.C.s)  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٧  |   | physiology | <b>White Blood Cells</b> (Types of W.B.C. , Genesis of the leukocytes, Life span of the W.B.C, Phagocytosis, Inflammation, Leukemia's, Leukopenia)  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٨  | ١ | physiology | <b>Hemoglobin</b> (Formation of Hemoglobin , Iron Metabolism , Hb Compounds , Destruction of Hb , The common causes of jaundice)  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٩  | ١ | physiology | <b>Blood groups</b> (Agglutination, Agglutinins, The Rh Group, Formation of Anti-Rh, agglutinins, Erythroblastosis Fetalis , Effect of the Mother's Antibodies on the Fetus, Transfusion Reactions resulting from mismatched Blood Types , Nature of Antibodies)                    | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ١٠ | ١ | physiology | <b>Hemostasis and blood coagulation</b> (Vascular Spasm , Formation of a Platelet Plug , Mechanism of the Platelet Plug , Mechanism of Blood Coagulation , Prevention of Clotting in the Normal Vascular System , Prevention of Blood Coagulation outside the Body , Blood Disease) | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |

|    |   |            |  |  |   |
|----|---|------------|--|--|---|
| ١١ | ١ | physiology | <b>Cardiovascular system:<br/>Blood vessels</b><br>(Heart: Layers, Valves, Actions of heart, Blood Vessels, Division of circulation, Properties of Cardiac Muscle, Action Potential and Ionic Basis, Conductive system of Human Heart)   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ١٢ | ١ | physiology | <b>Cardiovascular system:<br/>Blood pressure</b><br>(Cardiac Cycle, Heart Sounds, Cardiac Output, Heart Rate and Regulation, Arterial Blood Pressure and Regulation of ABP Venous Pressure and Capillary Pressure, Arterial Pulse and Venous Pulse, Regional Circulation)                                      | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ١٣ | ١ | physiology | <b>Cardiovascular system</b><br>(Electrocardiogram, Hemorrhage, Circulatory Shock and Heart Failure, Cardiovascular Adjustments during Exercise)   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ١٤ | ١ | physiology | <b>Respiratory system</b> (Types of Respiration, Stages of Respiration, Non respiratory functions of respiratory tract, Mechanics of Pulmonary Ventilation, Types of Respiratory pressures, Factors causing and preventing collapsing tendency of lungs)   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ١٥ | ١ | physiology | <b>Respiratory system:<br/>Lung volumes and capacities</b><br>(Compliance, The work of breathing, Dead space, Lung volume and Lung capacity, Ventilation, Respiratory Protective reflexes , Pulmonary function tests, Regulation of Respiration, The relationship between oral health and respiratory disease) | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ١٦ | ١ | physiology | <b>Half-year Break</b>   |  |   |

|    |   |            |  |  |   |
|----|---|------------|--|--|---|
| ١٧ | ١ | physiology | <p><b>SPECIAL SENSATION: Vision, Hearing, taste &amp; smell</b> (Structure of Eye, Visual Process and Field of Vision, Visual Pathway Pupillary Reflexes, Color Vision, and Errors of Refraction.</p> <p>Structure of Ear and Auditory Pathway ,Mechanism of Hearing and Auditory Defects, Sensation of Taste and Smell)</p>   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ١٨ | ١ | physiology | <p><b>Temperature of the Body</b> (Normal body Temperatures, Physiological Variations of body temperature, Heat Balance, Heat gain or heat production in the body, Heat loss from the body, Insulator System of the Body, Regulation of body temperature, Mechanisms to decrease or increase body temperature, Sympathetic “Chemical” Excitation of heat production)</p> | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ١٩ | ١ | physiology | <p><b>Urinary system</b> (Parts of Renal system, The Kidney, Functions of kidneys, Components of kidney, Renal corpuscle, Structure of renal corpuscle, Tubular portion of nephron, Collecting duct )</p>  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٢٠ | ١ | physiology | <p><b>Urinary system: Urine formation</b> (Mechanism of urine formation, Glomerular Filtration, Pressure determining filtration, Tubular Reabsorption &amp; secretion, Micturition, Nerve supply to urinary bladder, Renal Function Tests, Relation between renal disease &amp; oral health)</p>   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٢١ | ١ | physiology | <p><b>Endocrine System</b> (Introduction, Endocrine glands, Hormones, Nature of Hormones, Classification of hormones, Hormone Secretors, Hormonal action. Hormone receptors, Synthesis and storage of</p>  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |

|    |   |            |   |  |   |
|----|---|------------|---|--|---|
|    |   |            | hormones, Mechanism of hormonal function, Measurement of Hormone Concentrations)  |  |   |
| ۲۲ | 1 | physiology | <b>Major Endocrine Glands</b> (Oral manifestations of endocrine dysfunction, Control Systems Involving Hypothalamus and Pituitary glands, The pituitary gland, Thyroid gland, Pancreas gland, Adrenal glands)   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ۲۳ | 1 | physiology | <b>Digestive system</b> (The Functions of the digestive, Structural layers of digestive, Stomach, Secretions of the Stomach, Regulation of Stomach Secretion, Mixing of Stomach Contents, Stomach Emptying)   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ۲۴ | 1 | physiology | <b>Digestive system</b> (small intestine, Secretions of small intestine, Movement in small intestine, Liver, Functions of liver, Pancreatic secretions, Regulation of pancreatic secretion, Large intestine, Movement in large Intestine, Digestion, Absorption, Transport) | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ۲۵ | 1 | physiology | <b>Muscular system: Muscle structure</b> (Types, Structure, Microscopic Structure, Muscle Physiology, Properties, Contraction and contractile elements, Tone, Electrical and Molecular Changes during Muscular Contraction)   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ۲۶ | 1 | physiology | <b>Muscular system: Tone , contraction</b> (Molecular Changes During Muscular Contraction, Neuromuscular Junction- Neuromuscular Transmission and Blockers, Nutrition and Metabolism (Energy Requirements))   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ۲۷ | 1 | physiology | <b>Nervous System: Nerve impulse, synapses</b> (Nervous System Division, Cranial nerves , Neuron and Neuroglia, Receptors, Nerve impulse, Synapse and Neurotransmitters)  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |

|    |   |            |   |  |   |
|----|---|------------|---|--|---|
| ٢٨ | 1 | physiology | <b>Nervous System</b><br>(Reflex Activity, Somatosensory System and Somatomotor System, Physiology of Pain)   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٢٩ | 1 | physiology | <b>Reproductive system: Aging &amp; reproductive system</b> (Male Reproductive System Female Reproductive System, Meiosis, Aging and Reproductive system.                                       | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٣٠ | 1 | physiology | <b>Aviation and Deep physiology</b> (Body Response in high altitudes, physiological Changes in the Sea deep)<br><b>Nutrition and metabolism</b> (daily energy requirement, obesity and fitness) | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |

| <b>12. Infrastructure</b>   |   |
|---|---|
| 1-Books required reading  | Medical Physiology 4 th edition and general physiology book<br>Essentials of physiology for dental students   |
| 2-Main reference sources<br>i- - Recommended books and references<br>(scientific journals, reports...). |   |
| b-Electronic references, Internet sites...  | The faculty website   |
| <b>13. The development of the curriculum plan</b>   | 1-Development of academic content by deletion, addition and replacement.<br>2-Using modern methods of teaching appropriate to the level of learners from time to time.<br>3-Updating the assessment methods and measuring the level of students.4- Encouraging e-learning.<br>5-Providing the student with the skills required by the dental profession and the changes of the times. |

**Laboratory sessions**

| <b>No.</b> | <b>Title of the sessions</b>                              | <b>Hours</b> |
|------------|---|--------------|
| 1          | Microscope  | 2            |
| 2          | Collection of Blood Samples                               | 2            |
| 3          | Blood Smears  | 2            |
| 4          | Functions of Saliva & Taste Sensation                     | 2            |
| 5          | Stimulation and collection of salivary secretion          | 2            |
| 6          | Separation of blood samples                               | 2            |
| 7          | Differential WBCs   | 2            |
| 8          | Total Count of WBCs                                       | 2            |
| 9          | Total Count of RBCs                                       | 2            |
| 10         | Blood groups  | 2            |
| 11         | Estimation of Hemoglobin                                  | 2            |
| 12         | Bleeding and clotting time                                | 2            |
| 13         | Self-Monitoring of blood glucose test                     | 2            |
| 14         | Measurement of blood pressure & pulse rate                | 2            |
| 15         | Effect of exercise on blood pressure and respiratory rate | 2            |
| 16         | Mid Exam  |              |
| 17         | Physiology of vision test                                 | 2            |
| 18         | Physiology of hearing test                                | 2            |
| 19         | Physiology of Smell sensation                             | 2            |
| 20         | Measurement of body temperature                           | 2            |
| 21         | Thyroid function (Body mass index)                        | 2            |
| 22         | Thyroid function (Body mass index)                        | 2            |
| 23         | Resuscitation & Artificial respiration                    | 2            |
| 24         | Resuscitation & Artificial respiration                    | 2            |
| 25         | Physiology of Skeletal muscles                            | 2            |
| 26         | Physiology of Skeletal muscles                            | 2            |
| 27         | Physiology of Skeletal muscles                            | 2            |
| 28         | Examination of reflexes (Motor Function)                  | 2            |
| 29         | Seminars and examinations                                 | 2            |
| 30         | Seminars and examinations                                 | 2            |
|            | Final exam  |              |

|  |  |
|--|--|
| <b>1. Educational Institution</b>  | University of Baghdad                              |
| <b>2. University Department/Centre</b>   | College of Dentistry                               |
| <b>3 The name/code of the Academic Programme</b>   | 203CS/Computer Sciences                            |
| <b>4. Programme included</b>   | Computer Science                                   |
| <b>5. Available Academic Courses</b>   | Laboratories                                       |
| <b>6. Academic Study System/year</b>   | The first and second semesters of the second stage |
| <b>7. Number of hours (total)</b>  | 30 theoretical hours                               |
| <b>8. Preparation Date of this Description</b>   | 2021-2022-.  |
| <b>9.Objectives of the Academic Programme</b>  |  |
| Introduction to Computer Science, where students learn the performance of computers, supported methods, software, and using computers medical fields |  |



## **10. Programme outputs and teaching, learning and assessment methods**

### **A. Cognitive Objectives (Knowledge and Understanding)**

- A.1 - Teaching the students ways to use the computer
- A.2 - How to use software applications

### **B. Programme Skill Objectives**

- B.1 - Student instruction in computer use functions
- B.2 - Medical computer use

### **Methods of Teaching and Learning**

- Educational methods and computers
- Student guidance on some websites to use them.

### **Assessment Methods**

- Practical examinations
- Quiz examinations

### **C. Thinking Skills**

- C.1 - Enhance thinking skills through problem-solving learning.
- C.2 - Gaining the basic principles of the learning curriculum.
- C.3 - Developing student capacity for discussion and dialogue.
- C.4 - Encouraging students to connect the use of information technology to their work of dentists

### **Methods of Teaching and Learning**

- Lessons that assess student research and instruction on ways to confront and solve problems
- Continue the way the students think, how they make expression and how quickly they respond.

### **Assessment Methods**

- Practical examinations

**D. General and gained skills (Other skills related to employability and personal development).**

D.1 - The student is practically prepared in terms of applying the use of the computer in his or her work.

D.2 - Considering problem solving.

D.3 – Teaching of professional ethics.

D.4 - The student acquired skills to become an expert with using information technology.

D.5 - Developing student capacity to work with multiple learning tools.

| <b>11. Academic Course Structure</b> |              |  |                             |                        |                          |
|--------------------------------------|--------------|--|-----------------------------|------------------------|--------------------------|
| <b>Week</b>                          | <b>Hours</b> | <b>Theoretical content</b>   | <b>Academic Course name</b> | <b>Teaching Method</b> | <b>Assessment method</b> |
| 1                                    | 2            | Introduction about Excels /A Look at Microsoft Excel                             | Computers Science           | Computers labs         | Practical examinations   |
| 2                                    | 2            | Modifying A Worksheet  | Computers Science           | Computers labs         | Practical examinations   |
| 3                                    | 2            | Performing Calculations  | Computers Science           | Computers labs         | Practical examinations   |
| 4                                    | 2            | Formatting a worksheet/  | Computers Science           | Computers labs         | Practical examinations   |
| 5                                    | 2            | Developing a workbook  | Computers Science           | Computers labs         | Practical examinations   |
| 6                                    | 2            | Printing Workbook Contents   | Computers Science           | Computers labs         | Practical examinations   |
| 7                                    | 2            | Customizing Layout   | Computers Science           | Computers labs         | Practical examinations   |
| 8                                    | 2            | Introduction about Microsoft Power point/starting power point<br>Formatting text | Computers Science           | Computers labs         | Practical examinations   |
| 9                                    | 2            |  | Computers Science           | Computers labs         | Practical examinations   |
| 10                                   | 2            | Using graphics and Text  | Computers Science           | Computers labs         | Practical examinations   |

| <b>Week</b> | <b>Hours</b> | <b>Theoretical content</b>                                      | <b>Academic Course name</b> | <b>Teaching Method</b> | <b>Assessment method</b> |
|-------------|--------------|---|-----------------------------|------------------------|--------------------------|
| 11          | 2            | Manipulating the slides   | Computers Science           | Computers labs         | Practical examinations   |
| 12          | 2            | Using Multimedia Elements                                       | Computers Science           | Computers labs         | Practical examinations   |
| 13          | 2            | Add Animation   | Computers Science           | Computers labs         | Practical examinations   |
| 14          | 2            | Add Sound and movies  | Computers Science           | Computers labs         | Practical examinations   |
| 15          | 2            | Power point Management  | Computers Science           | Computers labs         | Practical examinations   |
| 16          | 2            | Introduction about Microsoft Access/ A look at Microsoft Access | Computers Science           | Computers labs         | Practical examinations   |
| 17          | 2            | Starting Microsoft Access                                       | Computers Science           | Computers labs         | Practical examinations   |
| 18          | 2            | Part 1: Using an Existing Table                                 | Computers Science           | Computers labs         | Practical examinations   |
| 19          | 2            | Sorting& Selecting Records                                      | Computers Science           | Computers labs         | Practical examinations   |
| 20          | 2            | Using a Form& Using a Report                                    | Computers Science           | Computers labs         | Practical examinations   |
| 21          | 2            | Part 2: Creating a New Table/ Designing the                     | Computers Science           | Computers labs         | Practical examinations   |

| Week | Hours | Theoretical content   | Academic Course name | Teaching Method | Assessment method      |
|------|-------|---|----------------------|-----------------|------------------------|
| 20   | 2     | <b>Introduction about Excels</b><br>/A Look at Microsoft Excel  | Computer Science     | Computers labs  | Practical examinations |
| 21   | 2     | <b>Modifying A Worksheet</b><br>/performing Calculations  | Computer Science     | Computers labs  | Practical examinations |
| 22   | 2     | <b>Formatting a worksheet/</b> Developing a work book   | Computer Science     | Computers labs  | Practical examinations |
| 23   | 2     | <b>Printing Workbook Contents/</b> Customizing Layout   | Computer Science     | Computers labs  | Practical examinations |
| 24   | 2     | <b>Printing Workbook Contents/</b> Customizing Layout   | Computer Science     | Computers labs  | Practical examinations |
| 25   | 2     | <b>Introduction about Microsoft Access/</b> A look at Microsoft Access<br><b>Creating Data tables</b> | Computer Science     | Computers labs  | Practical examinations |
| 26   | 2     | <b>Querying the database/</b> Designing Forms/Producing reports                                       | Computer Science     | Computers labs  | Practical examinations |
| 27   | 2     | <b>Introduction into Microsoft Power point/</b> starting power point                                  | Computer Science     | Computers labs  | Practical examinations |
| 28   | 2     | <b>Formatting text/</b> Using graphics and Text   | Computer Science     | Computers labs  | Practical examinations |
| 29   | 2     | <b>Manipulating the slides/</b> Using Multimedia Elements   | Computer Science     | Computers labs  | Practical examinations |
| 30   | 2     | <b>Power point Management</b>   | Computer science     | Computers labs  | Practical examinations |

## 12. Infrastructure

11- Books required reading

Computer basics and office applications  
Part one and part two

|   |  |
|---|--|
| <p>12- Main reference sources</p> <p>j- - Recommended books and references (scientific journals, reports...).</p> |  |
| <p>b-Electronic references, Internet sites...</p>   | <p>The faculty website</p>   |
| <p><b>13. The development of the curriculum plan</b></p>  | <p>1-Development of academic content by deletion, addition and replacement.</p> <p>2-Using modern methods of teaching appropriate to the level of learners from time to time.</p> <p>3-Updating the assessment methods and measuring the level of students.</p> <p>4- Encouraging e-learning.</p> <p>5-Providing the student with the skills required by the dental profession and the changes of the times.</p> |

|  |  |
|--|--|
| <b>1. Educational Institution</b>  | Ministry of Higher Education and Scientific Research/<br>University of Baghdad |
| <b>2. University Department/Centre</b>   | Dentistry / oral diagnosis   |
| <b>3. The name/code of the Academic Programme</b>  | Oral Histology 215OH   |
| <b>4. Programme included</b>   | Dentistry  |
| <b>5. Available Academic Courses</b>   | Theoretical lectures and laboratories  |
| <b>6. Academic Study System/year</b>   | Two semesters/ Second stage  |
| <b>7. Number of hours (total)</b>  | 30 theoretical hours and 60 practical hours                                    |
| <b>8. Preparation Date of this Description</b>   | 2021-2022-.  |
| <b>9. Objectives of the Academic Programme</b><br>to qualify dentists who can identify the types of oral and dental tissues, learn the technique of cutting tissues of the mouth and teeth in the laboratory, how to use the photomicroscope and tissue slicing devices and know the types of pigments used to dye different mouth tissues |  |

#### **10. Learning outputs and methods of teaching, learning and evaluation**

##### **A. Cognitive Objectives (Knowledge and Understanding)**

A.1 - Enabling students to use the photomicroscope and cut the tissues of the mouth and teeth

A.2 - Enabling students to know the types of natural oral tissues by giving enough information about the types of microscopes used to study the histology of the clutopia and the types of tissue layers

A.3 -

A.4 -

A.5 -

A.6 -

**B. Programme Skill Objectives**

B.1 – Know the different types of natural oral tissues by reading slides

1. Use the photomicroscope
2. How to slice different tissues of the mouth and teeth

B.2 -

B.3 -

B.4 -

**Methods of Teaching and Learning**

Theoretical Lectures using  
Data show LCD  
In-laboratories Slider Monitor

**Assessment Methods**

Quarterly + Quiz + Seminars  
Practical examinations

**C. Thinking Skills**

C.1 - Understand the importance of natural mouth tissue and how to chop it

C.2 -

C.3 -

C.4 -

**Methods of Teaching and Learning**

Continuing review of how they learn the types of mouth tissue by presenting them under the microscope

**Assessment Methods**

Practical in-laboratories exams. Show the slides to see how well they understand to use the photomicroscope and tissue slicing devices



**D. General and gained skills (other skills related to employability and personal development).**

D.1 - ability to diagnose tissue for oral tissue and fetal tissue

D.2 - ability to test laboratory equipment

D.3 -

D.4 -

| 11. Academic Course Structure |       |   |                      |   |   |
|-------------------------------|-------|---|----------------------|---|---|
| Week                          | Hours | Theoretical content                               | Academic Course name | Teaching Method                             | Assessment method                                 |
| 1                             | 1     | Slide preparation: Sectioning, Staining           | Oral Histology       | Data show slides and Lab. Slide preparation | Quarterly exams + Quiz + practical exams seminars |
| 2                             | 1     | Development of the teeth                          | Oral Histology       | Data show slides and microscopic slides     | Quarterly exams + Quiz + practical exams seminars |
| 3                             | 1     | Morphogenesis and Histogenesis                    | Oral Histology       | Data show slides and microscopic slides     | Practical exams                                   |
| 4                             | 1     | Enamel: physical and chemical characters          | Oral Histology       | Data show slides and microscopic slides     | Quarterly exams + Quiz + practical exams seminars |
| 5                             | 1     | Amelogenesis, ameloblast life cycle               | Oral Histology       | Data show slides and microscopic slides     | Practical exams                                   |
| 6                             | 1     | Clinical consideration: Genetic and local factors | Oral Histology       | Data show slides and microscopic slides     | Quarterly exams + Quiz + practical exams seminars |
| 7                             | 1     | Dentine: Physical and chemical properties         | Oral Histology       | Data show slides and microscopic slides     | Practical exams                                   |
| 8                             | 1     | Dentinogenesis: Different kinds of dentine        | Oral Histology       | Data show slides and microscopic slides     | Quarterly exams + Quiz + practical exams seminars |
| 9                             | 1     | Odontoblast life cycle, innervations theories     | Oral Histology       | Data show slides and microscopic slides     | Practical exams                                   |

| <b>Week</b> | <b>Hours</b> | <b>Theoretical content</b>                 | <b>Academic Course name</b> | <b>Teaching Method</b>                      | <b>Assessment method</b>                          |
|-------------|--------------|--|-----------------------------|---|---|
| 10          | 1            | Pulp: Formation and development            | Oral Histology              | Data show slides and Lab. Slide preparation | Quarterly exams + Quiz + practical exams seminars |
| 11          | 1            | Pulp stone<br>Clinical consideration       | Oral Histology              | Data show slides and microscopic slides     | Practical exams                                   |
| 12          | 1            | Root formation                             | Oral Histology              | Data show slides and microscopic slides     | Quarterly exams + Quiz + practical exams seminars |
| 13          | 1            | Clinical consideration                     | Oral Histology              | Data show slides and microscopic slides     | Practical exams                                   |
| 14          | 1            | Cementum: Physical and chemical characters | Oral Histology              | Data show slides and microscopic slides     | Quarterly exams + Quiz + practical exams seminars |
| 15          | 1            | Cementogenesis                             | Oral Histology              | Data show slides and microscopic slides     | Practical exams                                   |
| 16          | 1            | Clinical consideration                     | Oral Histology              | Data show slides and microscopic slides     | Quarterly exams + Quiz + practical exams seminars |
| 17          | 1            | Periodentium                               | Oral Histology              | Microscopic slides                          | Practical exams                                   |
| 18          | 1            | Principles fiber grouping                  | Oral Histology              | Data show slides                            | Quarterly exams + Quiz + practical exams seminars |
| 19          | 1            | Oral mucosa                                | Oral Histology              | Microscopic slides                          | Practical exams                                   |
| 20          | 1            | Non keratinized epithelium                 | Oral Histology              | Microscopic slides                          | Quarterly exams + Quiz + Practical exams seminars |
| 21          | 1            | keratinized epithelium                     | Oral Histology              | Microscopic slides                          | Practical exams                                   |
| 22          | 1            | Junctional Epithelia                       | Oral Histology              | Data show slides                            | Quarterly exams + Quiz + Practical exams seminars |

| Week | Hours | Theoretical content                       | Academic Course name | Teaching Method                             | Assessment method                                 |
|------|-------|---|----------------------|---|---|
| 23   | 1     | Salivary glands                           | Oral Histology       | Data show slides                            | Quarterly exams + Quiz + Practical exams seminars |
| 24   | 1     | Eruption                                  | Oral Histology       | Data show slides                            | Practical exams                                   |
| 25   | 1     | Shedding                                  | Oral Histology       | Data show slides                            | Quarterly exams + Quiz + practical exams seminars |
| 26   | 1     | Maxillary sinus                           | Oral Histology       | Data show slides                            | Practical exams                                   |
| 27   | 1     | Temporomandibular joint                   | Oral Histology       | Seminar discussion                          | Quarterly exams + Quiz + practical exams seminars |
| 28   | 1     | Histochemistry                            | Oral Histology       | Seminar discussion                          | Practical exams                                   |
| 29   | 1     | Identification of glycogen in oral tissue | Oral Histology       | Seminar discussion                          | Quarterly exams + Quiz + practical exams seminars |
| 30   | 1     | Uses of PAS and Alcian stain              | Oral Histology       | Data show slides and Lab. Slide preparation | Practical exams                                   |

| 12. Infrastructure   |   |
|--|---|
| 1-Books required reading   | TEXTBOOKS OF GRBANS TENCATE<br>Orban's oral histology and embryology. Kumar. 14th edition. 2015, Elsevier.  |
| 2-Main reference sources<br>k- - Recommended books and references (scientific journals, reports...). |   |
| b-Electronic references, Internet sites...   | The faculty website   |
| <b>13. The development of the curriculum plan</b>  | 1-Development of academic content by deletion, addition and replacement.<br>2-Using modern methods of teaching appropriate to the level of learners from time to time.<br>3-Updating the assessment methods and measuring the level of students.4- Encouraging e-learning.<br>5-Providing the student with the skills required by the dental profession and the changes of the times. |

**Laboratory sessions**

| <b>No.</b> | <b>Title of the sessions</b>                      | <b>Hours</b> |
|------------|---|--------------|
| 1          | Slide preparation: Sectioning, Staining           | 2            |
| 2          | Development of the teeth                          | 2            |
| 3          | Morphogenesis and Histogenesis                    | 2            |
| 4          | Enamel: physical and chemical characters          | 2            |
| 5          | Amelogenesis, ameloblast life cycle               | 2            |
| 6          | Clinical consideration: Genetic and local factors | 2            |
| 7          | Dentine: Physical and chemical properties         | 2            |
| 8          | Dentinogenesis: Different kinds of dentine        | 2            |
| 9          | Odontoblast life cycle, innervations theories     | 2            |
| 10         | Pulp: Formation and development                   | 2            |
| 11         | Pulp stone, Clinical consideration                | 2            |
| 12         | Root formation                                    | 2            |
| 13         | Clinical consideration                            | 2            |
| 14         | Cementum: Physical and chemical characters        | 2            |
| 15         | Cementogenesis                                    | 2            |
| 16         | Clinical consideration                            | 2            |
| 17         | Periodentium                                      | 2            |
| 18         | Principles fiber grouping                         | 2            |
| 19         | Oral mucosa                                       | 2            |
| 20         | Non keratinized epithelium                        | 2            |
| 21         | keratinized epithelium                            | 2            |
| 22         | Junctional epithelia                              | 2            |
| 23         | Salivary glands                                   | 2            |
| 24         | Eruption of deciduous teeth                       | 2            |
| 25         | Shedding  | 2            |
| 26         | Maxillary sinus                                   | 2            |
| 27         | Temporomandibular joint                           | 2            |
| 28         | Histochemistry                                    | 2            |
| 29         | Identification of glycogen in oral tissue         | 2            |
| 30         | Uses of PAS and Alcian stain                      | 2            |
| Total      |   | 60           |

|  |  |
|--|--|
| <b>1. Educational Institution</b>  | University of Baghdad                          |
| <b>2. University Department/Centre</b>   | College of Dentistry                           |
| <b>3. The name/code of the Academic Programme</b>  | General anatomy 209AN                          |
| <b>4. Programmes included</b>  | Anatomy of a human body                        |
| <b>5. Available Academic Courses</b>   | Lectures and labs                              |
| <b>6. Academic Study System/Year</b>   | First and second semesters of the second stage |
| <b>7. Number of hours (total)</b>  | 30 theoretical hours and 60 practical hours    |
| <b>8. Preparation Date of this Description</b>   | 2021-2022.                                     |
| <b>9. Aims of the Academic Programme</b>   |  |
| <p>The scientific preparation of students in relation to the human anatomy, especially in relation to the subject of study.</p> <p>The head and neck anatomy and its relationship to their competence as dentists.</p> |  |

#### **166. Programme outputs and teaching, learning and assessment methods**

##### **A. Cognitive Objectives (Knowledge and Understanding)**

- A.1 - Acquiring knowledge about human anatomy
- A.2 - Focusing on the head and neck anatomy
- A.3 – Relevance to their competence as dentists.

##### **B. Programme Skill Objectives**

- B.1. - Relationship of human anatomy to student work as dentists.
- B.2. - Gaining full knowledge of the organs of the human body.
- B.3 -

### **Methods of Teaching and Learning**

- Lectures using (Data show) (power point)
- Training videos
- Guiding students on some websites to benefit from them.
- Practical laboratory on anatomical models

### **Assessment Methods**

- Theoretical exams.
- Practical examinations.
- Oral examinations
- Written examinations

### **C. Thinking skills**

C.1 - promoting thinking skills through problem-solving learning.

C.2 - Gaining the basic principles of the learning curriculum.

C.3 - Developing student capacity for discussion and dialogue.

C.4 - Encouraging students to connect knowledge to human anatomy and acting as dentists

### **Methods of Teaching and Learning**

- Lectures that evaluate student research and instruction on ways to confront and solve problems.
- Continue the way the student thinks, how they make expression and how quickly they respond.
- Practical lessons on anatomical models.

### **Assessment Methods**

- Theoretical exams.
- Practical examinations.

### **D. General and gained skills (Other skills related to employability and personal development).**

D.1 - Student preparation in the practice of terms of applying knowledge gained in human anatomy to their work.

D.2 - Considering problem solving.

D.3 - Teaching professional ethics.

D.4- Student acquisition of skills to become a dentist capable of treating patients.

D.5 - Development of student capacity to deal with multiple means of learning.

| <b>167. Academic Course structure (Theoretical side)</b> |              |   |                             |  |   |
|--|--------------|---|-----------------------------|--|---|
| <b>Week</b>  | <b>Hours</b> | <b>Theoretical content</b>              | <b>Academic Course name</b> | <b>Teaching Method</b>                 | <b>Assessment method</b>                                |
| 1  | 1            | Scalp                                   | General anatomy             | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 2  | 1            | Face                                    | General anatomy             | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 3  | 1            | Parotid gland                           | General anatomy             | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 4  | 1            | Facial artery                           | General anatomy             | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 5  | 1            | Temporal fossa and infra temporal fossa | General anatomy             | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 6  | 1            | Temporal fossa and infra temporal fossa | General anatomy             | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 7  | 1            | Temporal fossa and infra temporal fossa | General anatomy             | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |



| <b>Week</b> | <b>Hours</b> | <b>Theoretical content</b>              | <b>Academic Course name</b> | <b>Teaching Method</b>                 | <b>Assessment method</b>                                |
|-------------|--------------|---|-----------------------------|--|---|
| 8           | 1            | Temporal fossa and infra temporal fossa | General anatomy             | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 9           | 1            | Orbit                                   | General anatomy             | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 10          | 1            | Orbit                                   | General anatomy             | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 11          | 1            | Nasal cavity                            | General anatomy             | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 12          | 1            | Nasal cavity                            | General anatomy             | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 13          | 1            | Cranial nerves                          | General anatomy             | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 14          | 1            | Cranial nerves                          | General anatomy             | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 15          | 1            | Central nervous system                  | General anatomy             | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 16          | 1            | Neck                                    | General anatomy             | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |

| <b>Week</b> | <b>Hours</b> | <b>Theoretical content</b> | <b>Academic Course name</b> | <b>Teaching Method</b>                 | <b>Assessment method</b>                                |
|-------------|--------------|----------------------------|-----------------------------|--|---|
| 17          | 1            | Neck                       | General anatomy             | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 18          | 1            | Neck                       | General anatomy             | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 19          | 1            | Pharynx                    | General anatomy             | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 20          | 1            | Alimentary tract           | General anatomy             | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 21          | 1            | Alimentary tract           | General anatomy             | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 22          | 1            | Alimentary tract           | General anatomy             | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 23          | 1            | Alimentary tract           | General anatomy             | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |

| <b>Week</b> | <b>Hours</b> | <b>Theoretical content</b>      | <b>Academic Course name</b> | <b>Teaching Method</b>                 | <b>Assessment method</b>                                |
|-------------|--------------|---------------------------------|-----------------------------|--|---|
| 24          | 1            | Alimentary tract                | General anatomy             | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 25          | 1            | Major body vessels              | General anatomy             | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 26          | 1            | Major body vessels              | General anatomy             | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 27          | 1            | Anatomy of nerve block          | General anatomy             | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 28          | 1            | Anatomy of nerve block          | General anatomy             | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 29          | 1            | Lymph drainage of head and neck | General anatomy             | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 30          | 1            | Spaces of head and neck         | General anatomy             | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |

| <b>The Practical side</b> |              |   |                             |   |  |
|---------------------------|--------------|---|-----------------------------|---|--|
| <b>Week</b>               | <b>Hours</b> | <b>Programme Glossary</b>               | <b>Academic Course name</b> | <b>Teaching Method</b>                                | <b>Assessment method</b>                                       |
| 1                         | 2            | Scalp                                   | General anatomy             | Use anatomical models as well as display video lesson | Quarterly, half-year and final practical and oral examinations |
| 2                         | 2            | Face                                    | General anatomy             | Use anatomical models as well as display video lesson | Quarterly, half-year and final practical and oral examinations |
| 3                         | 2            | Parotid gland                           | General anatomy             | Use anatomical models as well as display video lesson | Quarterly, half-year and final practical and oral examinations |
| 4                         | 2            | Facial artery                           | General anatomy             | Use anatomical models as well as display video lesson | Quarterly, half-year and final practical and oral examinations |
| 5                         | 2            | Temporal fossa and infra temporal fossa | General anatomy             | Use anatomical models as well as display video lesson | Quarterly, half-year and final practical and oral examinations |
| 6                         | 2            | Temporal fossa and infra temporal fossa | General anatomy             | Use anatomical models as well as display video lesson | Quarterly, half-year and final practical and oral examinations |
| 7                         | 2            | Temporal fossa and infra temporal fossa | General anatomy             | Use anatomical models as well as display video lesson | Quarterly, half-year and final practical and oral examinations |
| 8                         | 2            | Temporal fossa and infra temporal fossa | General anatomy             | Use anatomical models as well as display video lesson | Quarterly, half-year and final practical and oral examinations |

| <b>Week</b> | <b>Hours</b> | <b>Programme Glossary</b> | <b>Academic Course name</b> | <b>Teaching Method</b>                                | <b>Assessment method</b>                                       |
|-------------|--------------|---------------------------|-----------------------------|---|--|
| 9           | 2            | Orbit                     | General anatomy             | Use anatomical models as well as display video lesson | Quarterly, half-year and final practical and oral examinations |
| 10          | 2            | Orbit                     | General anatomy             | Use anatomical models as well as display video lesson | Quarterly, half-year and final practical and oral examinations |
| 11          | 2            | Nasal cavity              | General anatomy             | Use anatomical models as well as display video lesson | Quarterly, half-year and final practical and oral examinations |
| 12          | 2            | Nasal cavity              | General anatomy             | Use anatomical models as well as display video lesson | Quarterly, half-year and final practical and oral examinations |
| 13          | 2            | Cranial nerves            | General anatomy             | Use anatomical models as well as display video lesson | Quarterly, half-year and final practical and oral examinations |
| 14          | 2            | Cranial nerves            | General anatomy             | Use anatomical models as well as display video lesson | Quarterly, half-year and final practical and oral examinations |
| 15          | 2            | Central nervous system    | General anatomy             | Use anatomical models as well as display video lesson | Quarterly, half-year and final practical and oral examinations |
| 16          | 2            | Neck                      | General anatomy             | Use anatomical models as well as display video lesson | Quarterly, half-year and final practical and oral examinations |

| <b>Week</b> | <b>Hours</b> | <b>Programme Glossary</b>            | <b>Academic Course name</b> | <b>Teaching Method</b>                                | <b>Assessment method</b>                                       |
|-------------|--------------|--------------------------------------|-----------------------------|---|--|
| 17          | 2            | Neck                                 | General anatomy             | Use anatomical models as well as display video lesson | Quarterly, half-year and final practical and oral examinations |
| 18          | 2            | Neck                                 | General anatomy             | Use anatomical models as well as display video lesson | Quarterly, half-year and final practical and oral examinations |
| 19          | 2            | Pharynx                              | General anatomy             | Use anatomical models as well as display video lesson | Quarterly, half-year and final practical and oral examinations |
| 20          | 2            | Alimentary tract & associated glands | General anatomy             | Use anatomical models as well as display video lesson | Quarterly, half-year and final practical and oral examinations |
| 21          | 2            | Alimentary tract & associated glands | General anatomy             | Use anatomical models as well as display video lesson | Quarterly, half-year and final practical and oral examinations |
| 22          | 2            | Alimentary tract & associated glands | General anatomy             | Use anatomical models as well as display video lesson | Quarterly, half-year and final practical and oral examinations |
| 23          | 2            | Alimentary tract & associated glands | General anatomy             | Use anatomical models as well as display video lesson | Quarterly, half-year and final practical and oral examinations |
| 24          | 2            | Alimentary tract & associated glands | General anatomy             | Use anatomical models as well as display video lesson | Quarterly, half-year and final practical and oral examinations |

| Week | Hours | Programme Glossary              | Academic Course name | Teaching Method                                       | Assessment method  |
|------|-------|---------------------------------|----------------------|---|--|
| 25   | 2     | Main body vessels               | General anatomy      | Use anatomical models as well as display video lesson | Quarterly, half-year and final practical and oral examinations |
| 26   | 2     | Main body vessels               | General anatomy      | Use anatomical models as well as display video lesson | Quarterly, half-year and final practical and oral examinations |
| 27   | 2     | Anatomy of nerve block          | General anatomy      | Use anatomical models as well as display video lesson | Quarterly, half-year and final practical and oral examinations |
| 28   | 2     | Anatomy of nerve block          | General anatomy      | Use anatomical models as well as display video lesson | Quarterly, half-year and final practical and oral examinations |
| 29   | 2     | Lymph drainage of head and neck | General anatomy      | Use anatomical models as well as display video lesson | Quarterly, half-year and final practical and oral examinations |
| 30   | 2     | Spaces of head and neck         | General anatomy      | Use anatomical models as well as display video lesson | Quarterly, half-year and final practical and oral examinations |

| 12. Infrastructure   |  |
|--|--|
| 1-Books required reading   | Snell's Clinical anatomy 9 <sup>th</sup> edition.<br>Netter's head and neck anatomy for dentistry 2 <sup>nd</sup> edition 2012.<br>Philadelphia, PA: Lippincott Williams & Wilkins. 2012 |
| 2-Main reference sources<br>1- - Recommended books and references (scientific journals, reports...). |  |
| b-Electronic references, Internet sites...   | The faculty website  |
| <b>13. The development of the curriculum plan</b>  | 1-Development of academic content by deletion, addition and replacement.<br>2-Using modern methods of teaching appropriate to the level of learners from time to time.                   |

3-Updating the assessment methods and measuring the level of students.4- Encouraging e-learning.  
5-Providing the student with the skills required by the dental profession and the changes of the times.

**Laboratory session**

| No.   | Title of the sessions                   | Hours |
|-------|---|-------|
| 1     | Scalp                                   | 2     |
| 2     | Face                                    | 2     |
| 3     | Parotid gland                           | 2     |
| 4     | Facial artery                           | 2     |
| 5     | Temporal fossa and infra temporal fossa | 2     |
| 6     | Temporal fossa and infra temporal fossa | 2     |
| 7     | Temporal fossa and infra temporal fossa | 2     |
| 8     | Temporal fossa and infra temporal fossa | 2     |
| 9     | Orbit                                   | 2     |
| 10    | Orbit                                   | 2     |
| 11    | Nasal cavity                            | 2     |
| 12    | Nasal cavity                            | 2     |
| 13    | Cranial nerves                          | 2     |
| 14    | Cranial nerves                          | 2     |
| 15    | Central nervous system                  | 2     |
| 16    | Neck                                    | 2     |
| 17    | Neck                                    | 2     |
| 18    | Neck                                    | 2     |
| 19    | Pharynx                                 | 2     |
| 20    | Alimentary tract & associated glands    | 2     |
| 21    | Alimentary tract & associated glands    | 2     |
| 22    | Alimentary tract & associated glands    | 2     |
| 23    | Alimentary tract & associated glands    | 2     |
| 24    | Alimentary tract & associated glands    | 2     |
| 25    | Main body vessels                       | 2     |
| 26    | Main body vessels                       | 2     |
| 27    | Anatomy of nerve block                  | 2     |
| 28    | Anatomy of nerve block                  | 2     |
| 29    | Lymph drainage of head and neck         | 2     |
| 30    | Spaces of head and neck                 | 2     |
| Total |   | 60    |



|  |   |
|--|---|
| <b>2. University Department \ Centre</b>       | College of Dentistry/Department of Basic Sciences |
| <b>3. The name/Code of the Academic Course</b> | Biosafety and Biosecurity                         |
| <b>4. Academic Study System</b>                | One lecture every two weeks                       |
| <b>5. Academic Course/Year</b>                 | Two semesters of second stage                     |
| <b>6. Number of hours (total)</b>              | 15 theoretical hours                              |
| <b>7. Preparation Date of this Description</b> | 2021-2022   |
|  |   |

**8- Course aim**

Introduction to the science of safety and biosecurity and teaching the student how maintain on the safety of student, the institution and the society in general.

**8-Learning outcomes and methods of teaching, learning and assessment**

A- knowledge and understanding

A1- Identifying of terminology of biosafety and security

A2- Identifying of dangers of microbes and chemical materials inside the laboratories and medical clinics.

A3-Enable the student to possess sufficient knowledge about laboratory equipment and how to maintain it

### B-Subject-specific skills

B1-Develop the student's ability to link between theoretical and practical information and analyze it to reach the best methods and results

B2- Enable the student to know the practical methods adopted in the management of laboratory equipment

B3- Contribute to reducing biological and chemical risks in scientific laboratories

B4- Training the student to manage sudden accidents in laboratories.

### Teaching and learning methods

-Lectures by using [power point (data show)]

-Educational movies

- Guiding students to some websites to benefit from them.

- Practical lab

### Evaluation methods

-Theory exam

-Practical exam

- Oral exam

- Quick exam

### C- Thinking skills

C1- Enhance thinking skills through problem-based learning

C2- Acquire the basic principles stipulated in the learning curriculum

C3-Develop the student's ability on discuss and debate

C4- Develop the student's ability on success management for maintain on laboratories and general health.

### Evaluation methods

-Theory exam

- Practical exam

D- General and transferable skills (other skills related to employability and personal development).

D1-Preparing the student practically in terms of applying the acquired knowledge

D2-Thinking for solve problem

D3- Teaching professional and research ethics

D 4- The acquired skills for the student to become a dentist capable of achieving the security and vitality of patients.

## 10.Course structure (Theoretical part)

| <b>10.Course structure (Theoretical part)</b> |                                    |                          |  |              |             |
|---|------------------------------------|--------------------------|--|--------------|-------------|
| <b>Evaluation method</b>                      | <b>Learning method</b>             | <b>Unit/subject name</b> | <b>Article vocabulary</b>                            | <b>Hours</b> | <b>Week</b> |
| Short, seasonal and final exam                | Theoretical lecture by power point | Biosafety &Biosecurity   | Introduction to biosafety &biosecurity               | ١            | ١           |
| Short, seasonal and final exam                | Theoretical lecture by power point | Biosafety &Biosecurity   | Terms &concept of biosafety &biosecurity             | ١            | ٢           |
| Short, seasonal and final exam                | Theoretical lecture by power point | Biosafety &Biosecurity   | Biosafety barriers in labs                           | ١            | ٣           |
| Short, seasonal and final exam                | Theoretical lecture by power point | Biosafety &Biosecurity   | Biological agents                                    | ١            | ٤           |
| Short, seasonal and final exam                | Theoretical lecture by power point | Biosafety &Biosecurity   | Biorisk &Biohazard                                   | ١            | ٥           |
| Short, seasonal and final exam                | Theoretical lecture by power point | Biosafety &Biosecurity   | Biorisk management system                            | ١            | ٦           |
| Short, seasonal and final exam                | Theoretical lecture by power point | Biosafety &Biosecurity   | Biological wastes types                              | ١            | ٧           |
| <b>Half-year Break</b>                        |                                    |                          |  |              |             |
| <b>Evaluation method</b>                      | <b>Learning method</b>             | <b>Unit/subject name</b> | <b>vocabulary</b>                                    | <b>Hours</b> | <b>Week</b> |
| Short, seasonal and final exam                | Theoretical lecture by power point | Biosafety &Biosecurity   | Transport & storage of biological material           | ١            | ٨           |
| Short, seasonal and final exam                | Theoretical lecture by power point | Biosafety &Biosecurity   | Personal protection Equipment (PPE) in lab & clinics | ١            | ٩           |

|                                |                                    |                         |                                      |   |    |
|--------------------------------|------------------------------------|-------------------------|--------------------------------------|---|----|
| Short, seasonal and final exam | Theoretical lecture by power point | Biosafety & Biosecurity | Facility design                      | ۱ | ۱۰ |
| Short, seasonal and final exam | Theoretical lecture by power point | Biosafety & Biosecurity | Biosafety levels                     | ۱ | ۱۱ |
| Short, seasonal and final exam | Theoretical lecture by power point | Biosafety & Biosecurity | Biosafety cabinet (BSC)              | ۱ | ۱۲ |
| Short, seasonal and final exam | Theoretical lecture by power point | Biosafety & Biosecurity | Risk characterization in biosecurity | ۱ | ۱۳ |
| Short, seasonal and final exam | Theoretical lecture by power point | Biosafety & Biosecurity | Biosafety in dentistry clinics       | ۱ | ۱۴ |
| Short, seasonal and final exam | Theoretical lecture by power point | Biosafety & Biosecurity | Accident response                    | ۱ | ۱۵ |

### ۱. Course structure (Particle part)

| Evaluation method                                      | Learning method   | Unit/subject name       | Article vocabulary                   | Hours | Week |
|--|---|-------------------------|--------------------------------------|-------|------|
| assessment of the practical part, short and final exam | Explanation of the theoretical part using P.P and application of the practical part | Biosafety & Biosecurity | Introduction to laboratory biosafety | ۱     | ۱    |
| assessment of the practical part, short and final exam | Explanation of the theoretical part using P.P and application of the practical part | Biosafety & Biosecurity | The Occupational Safety and Health   | ۱     | ۲    |
| assessment of the practical part, short and final exam | Explanation of the theoretical part using P.P and application of                    | Biosafety & Biosecurity | Biosafety barriers in labs           | ۱     | ۳    |

|  |   |                        |   |   |   |
|--|---|------------------------|---|---|---|
|  | the practical part  |                        |   |   |   |
| assessment of the practical part, short and final exam | Explanation of the theoretical part using P.P and application of the practical part | Biosafety& Biosecurity | Biological agents   | ١ | ٤ |
| assessment of the practical part, short and final exam | Explanation of the theoretical part using P.P and application of the practical part | Biosafety& Biosecurity | Biorisk & Biohazard                                       | ١ | ٥ |
| assessment of the practical part, short and final exam | Explanation of the theoretical part using P.P and application of the practical part | Biosafety& Biosecurity | Types of hood/ventilation systems                         | ١ | ٦ |
| assessment of the practical part, short and final exam | Explanation of the theoretical part using P.P and application of the practical part | Biosafety& Biosecurity | Biological wastes   | ١ | ٧ |
| assessment of the practical part, short and final exam | Explanation of the theoretical part using P.P and application of the practical part | Biosafety& Biosecurity | Transport & storage of valuable biological material (VBM) | ١ | ٨ |
| assessment of the practical part, short and final exam | Explanation of the theoretical part using P.P and application of the practical part | Biosafety& Biosecurity | Personal protection Equipment (PPE) in lab                | ١ | ٩ |

|  |   |                        |                                  |   |    |
|--|---|------------------------|----------------------------------|---|----|
| assessment of the practical part, short and final exam | Explanation of the theoretical part using P.P and application of the practical part | Biosafety& Biosecurity | Facility design                  | ۱ | ۱۰ |
| assessment of the practical part, short and final exam | Explanation of the theoretical part using P.P and application of the practical part | Biosafety& Biosecurity | Biosafety levels and risk groups | ۱ | ۱۱ |
| assessment of the practical part, short and final exam | Explanation of the theoretical part using P.P and application of the practical part | Biosafety& Biosecurity | Biosafety cabinet                | ۱ | ۱۲ |
| assessment of the practical part, short and final exam | Explanation of the theoretical part using P.P and application of the practical part | Biosafety& Biosecurity | Symbols and signs of biosafety   | ۱ | ۱۳ |
| assessment of the practical part, short and final exam | Explanation of the theoretical part using P.P and application of the practical part | Biosafety& Biosecurity | Food & label additives           | ۱ | ۱۴ |
| assessment of the practical part, short and final exam | Explanation of the theoretical part using P.P and application of the practical part | Biosafety& Biosecurity | Biosafety training               | ۱ | ۱۵ |

| <b>12. Infrastructure</b>   |   |
|---|---|
| 1-Books required reading  | laboratory biosafety manual.Third edition. Geneva,2004<br>World Health Organization. Laboratory biosafety manual<br>3 <sup>rd</sup> edition(2004)<br>- WHO.Biorisk management.Laboratory biosecurity guidance<br>(2006)<br>. CEN Workshop Agreement (CWA).(2011)<br>World Health Organizaton. Laboratory biosafety manual 4 <sup>th</sup><br>edition (2020)                                       |
| 2-Main reference sources<br>m- - Recommended books and references<br>(scientific journals, reports...). |   |
| b-Electronic references, Internet sites...  | The faculty website   |
| <b>13. The development of the curriculum plan</b>   | 1-Development of academic content by deletion, addition and<br>replacement.<br>2-Using modern methods of teaching appropriate to the level<br>of learners from time to time.<br>3-Updating the assessment methods and measuring the level<br>of students.4- Encouraging e-learning.<br>5-Providing the student with the skills required by the dental<br>profession and the changes of the times. |



|  |  |
|--|--|
| <b>1. Educational Institution</b>  | Ministry of higher Education and Scientific Research |
| <b>2. University Department/Centre</b>   | Basic Science  |
| <b>3. The name/code of the Academic Programme</b>  | Microbiology / MB 315                                |
| <b>4. Programme included</b>   | Microbiology – Dentistry                             |
| <b>5. Available Academic Courses</b>   | Student attendance is 100% for all academic year     |
| <b>6. Academic Study System /Year</b>  | Two semesters /Third stage                           |
| <b>7. Number of hours (total)</b>  | 60 theoretical hours and 60 practical hours          |
| <b>8. Preparation Date of this Description</b>   | 2021-2022-.  |
| <b>9. Objectives of the Academic Programme</b>   |  |
| <p>The aim of the microbiology lesson is to identify the principles of microbiology and epidemiological diseases, and this Academic Course aims to identify the characteristics of microbiology in general and the special characteristics of patho-genic microorganisms such as bacteria, fungi, viruses, and mechanics of pathology by these organisms and how to dif-ferentiate between each of these pathogens and the tests that they reveal. It aims to study the immune system, the me-chanics of the body's defences and the immune response to diseases and look at ways of sterilisation</p> |  |
| <b>10. Programme outputs and teaching, learning and assessment methods</b>   |  |
| <p><b>A. <u>Cognitive Objectives (Knowledge and Understanding)</u></b><br/> A.1 - Identify the microscopic organisms that are useful to humans<br/> A.2 - Identify the microscopic pathological life<br/> A.3 - Ways they can diagnose it (laboratory)<br/> A.4 - Identifying body immunity and types (Natural and acquired)<br/> A.5 - Relationship between human body and microorganisms in general<br/> A.6 -Identify methods of sterilisation</p>  |  |
| <p><b>B. <u>Programme Skill Objectives</u></b><br/> B.1 - Learn modern methods of diagnosing pathological microbiology<br/> B.2 - Identify microscopic organisms that cause new epidemics<br/> B.3 - Multiple causes of various diseases</p>   |  |
| <b><u>Methods of Teaching and Learning</u></b>   |  |
| Interactive methods  |  |

**Assessment Methods**

Long, short and quarterly examinations

**C. Thinking Skills**

C.1 - Diagnostic of the mechanism of pathogens by microorganisms

C.2 - Handling of epidemic pathogens (infectious)

**Methods of Teaching and Learning**

Theoretical Lessons

**Assessment Methods**

Examinations

**D. General and gained skills (other skills related to employability and personal development).**

D.1 -student preparation in practice

D.2 –

D.3 -

D.4 -

## *Laboratory sessions*

| week | Laboratory Work  | Notes |
|------|--|-------|
| 1    | Orientation to the Microbiology laboratory   | 2     |
| 2    | The microscope   | 2     |
| 3    | Sterilisation and disinfection   | 2     |
| 4    | Bacterial growth   | 2     |
| 5    | Types of culture media   | 2     |
| 6    | Sampling and transport of test material  | 2     |
| 7    | Laboratory cultivation of microorganisms   | 2     |
| 8    | Bacterial identification:<br>1-Macroscopical characteristics (colonial morphology and cultural characteristics). | 2     |
| 9    | 2. Microscopical examination (morphology of bacterial cells).  | 2     |
| 10   | Staining   | 2     |
| 11   | Biochemical tests (part 1).  | 2     |
| 12   | Biochemical tests( part2).   | 2     |
| 13   | Biochemical tests( part3).   | 2     |
| 14   | Antibiotic sensitivity test( part 1).  | 2     |
| 15   | Antibiotic sensitivity test( part 2).  | 2     |

## 11. Academic Course structure

| week | hours | Academic course name | Theoretical contents  | Teaching method                        | Assessment method                           |
|------|-------|----------------------|---|--|---|
| ١    | ١     | Microbiology         | <b>Morphology, Ultra structures, physiology and metabolism of microorganisms:-</b><br>-Eukaryotic & Prokaryotic cells<br>-Cell structure of prokaryotes<br>-Comparison between G+ve & G-ve cell wall    | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٢    | ١     | Microbiology         | <b>-Microbial growth, growth curve</b><br><b>-Metabolism of microorganisms</b><br><b>Molecular biology &amp; bacterial genetics</b>   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٣    | ١     | Microbiology         | <b>-Sterilization and Disinfection</b>  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٤    | 1     | Microbiology         | Antibiotic and chemotherapy:-<br>-Antibiotic, sources<br>-Mode of action of antibiotic<br>-Anti-microbial sensitivity tests<br>-Bacterial resistance<br>-Prophylactic use                               | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٥    | ١     | Microbiology         | <b>- Introduction to general immunology and oral immunology</b><br><b>- Non-specific and specific immunity</b><br><b>- Antigen</b><br><b>- Immunoglobulin</b><br><b>- Humeral and Cellular Immunity</b> | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٦    | ١     | Microbiology         | <b>- Cells and organs of the immune system</b><br><b>- Complement system</b><br><b>- Human leukocyte antigen</b><br><b>- Role of complement and HLA in oral disease</b>                                 | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٧    |       | Microbiology         | <b>- Oral and mucosal immunity</b><br><b>- Autoimmunity and immune tolerance</b>  | A theoretical lesson using             | Short, quarterly, half-year and final exams |

|    |   |              |   |  |   |
|----|---|--------------|---|--|---|
| 8  | 1 | Microbiology | - Hypersensitivity reactions<br>- Antimicrobial and immunological defenses of saliva and gingival crevicular fluid components   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 9  | 1 | Microbiology | Host-parasite relationship & Nosocomial infection<br>-Symbiosis, Commensalism, Amphibiosis, Antagonistic<br>-Sources of infection in hospital and -nosocomial infections<br>-Post-operative wound infection, burns infections | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 10 | 1 | Microbiology | Streptococci<br>-Pyogenic Streptococci<br>-Lancefield group<br>-Pathogenesis of streptococci<br>-Epidemiology, treatment and prevention<br>-Viridans streptococci<br>-Pneumococci   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 11 | 1 | Microbiology | Staphylococci<br>-Virulence factors - and pathogenesis<br>-Epidemiology, treatment and prevention   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 12 | 1 | Microbiology | <b>G- negative diplococci ,<br/>Vellionella and Moraxella<br/>Neisseria gonorrhoea, N.<br/>meningitidis</b>   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 13 | 1 | Microbiology | <b>Lactobacilli, Actinomyces<br/>and Corynebacterium<br/>diphtheriae &amp;<br/>Diphtheroids</b>   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 14 | 1 | Microbiology | <b>Bacillus: B. subtilis, B.<br/>anthracis and B.ceres</b>  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 15 | 1 | Microbiology | <b>Clostridium : C.<br/>perfringens , C. tetani, C.<br/>botulinum, and<br/>difficile</b>  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 16 | 1 | Microbiology | <b>Enterobacteriaceae<br/>-E.coli, Salmonella,<br/>Shigella,</b>  |  |   |
| 17 | 1 | Microbiology | <b>Enterobacter, Klebsiella,<br/>proteus, Yersinia</b>  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |

|    |   |              |   |   |  |
|----|---|--------------|---|---|--|
|    |   |              |   |   | final exams  |
| ١٨ | ١ | Microbiology | Mycobacterium<br>-Tuberculosis & Leprae   | A<br>theoretical<br>lesson using<br>Power Point | Short,<br>quarterly,<br>half-year and<br>final exams |
| ١٩ | ١ | Microbiology | <b>Brucella, Haemophilus,<br/>Vibrio</b>  | A<br>theoretical<br>lesson using<br>Power Point | Short,<br>quarterly,<br>half-year and<br>final exams |
| ٢٠ | ١ | Microbiology | - Aggregatibacter,<br>porphyromonas, prevotella,<br>Bacteroids  | A<br>theoretical<br>lesson using<br>Power Point | Short,<br>quarterly,<br>half-year and<br>final exams |
| ٢١ | ١ | Microbiology | <b>Fusiforms and Spirochaetes<br/>-Fusobacterium, leptotichia</b>   | A<br>theoretical<br>lesson using<br>Power Point | Short,<br>quarterly,<br>half-year and<br>final exams |
| ٢٢ | 1 | Microbiology | Treponema and oral<br>Treponema   | A<br>theoretical<br>lesson using<br>Power Point | Short,<br>quarterly,<br>half-year and<br>final exams |
| ٢٣ | 1 | Microbiology | <b>Mycoplasma, Chlamydia<br/>and Rickittsiae</b>  | A<br>theoretical<br>lesson using<br>Power Point | Short,<br>quarterly,<br>half-year and<br>final exams |
| ٢٤ | 1 | Microbiology | <b>Ecology of oral flora<br/>-Indigenous flora<br/>-Supplemental flora<br/>-Transient flora<br/>-Sources of oral bacteria<br/>-Factors modulating growth<br/>of bacteria in the oral cavity</b>                 | A<br>theoretical<br>lesson using<br>Power Point | Short,<br>quarterly,<br>half-year and<br>final exams |
| ٢٥ | 1 | Microbiology | <b>Microbiology of dental<br/>caries<br/>-Dental plaque &amp; plaque<br/>metabolism<br/>- plaque homeostasis<br/>-cariogenic microorganisms<br/>-Mutans Streptococci<br/>-Lactobacilli and<br/>Actinomyces-</b> | A<br>theoretical<br>lesson using<br>Power Point | Short,<br>quarterly,<br>half-year and<br>final exams |
| ٢٦ | 1 | Microbiology | Microbial colonization-<br>Caries prevention-<br>Antibacterial factors in<br>saliva-<br>-Vaccination against dental<br>caries   | A<br>theoretical<br>lesson using<br>Power Point | Short,<br>quarterly,<br>half-year and<br>final exams |

|    |   |              |  |  |   |
|----|---|--------------|--|--|---|
| ٢٧ | 1 | Microbiology | <b>Microbiology of periodontal disease and Endodontics</b><br><b>-Subgingival microbial complex</b><br><b>-specific , non-specific and Ecological plaque hypothesis</b><br><b>- Porphyromonas, prevotella, Aggregatibacter virulence factors of periodontal pathogens endodontic microbiota and Routes of root canal infection</b><br><b>-ecology of endodontic microbiology</b> | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٢٨ | 1 | Microbiology | Virology<br>-general structure of viruses<br>-classification   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٢٩ | 1 | Microbiology | viral replication<br>-Isolation & diagnosis<br>-Oral virology  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٣٠ | 1 | Microbiology | <b>- Oral mycology and Oral parasitology</b><br><b>-Introduction, epidemiology, transmission</b><br><b>-E.histolotica, E.gingivalis, T.tenax</b><br><b>-Fungal cells</b><br><b>-classification</b><br><b>-Candida</b>  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |

|    |  |   |
|----|--|---|
| 16 | Serological tests (antigen and antibody detection tests) (part 1). | 2 |
| 17 | Serological tests (antigen and antibody detection tests) (part 2). | 2 |
| 18 | Nucleic acid assays, Animal pathogenicity test                     | 2 |
| 19 | Staphylococci  | 2 |
| 20 | Streptococci   | 2 |
| 21 | <u>Corynebacterium</u>   | 2 |
| 22 | Spore-forming Gram-positive bacilli: <u>Bacillus</u> spp.          | 2 |

|    |                            |   |
|----|----------------------------|---|
| 23 | <u>Clostridium</u> spp.    | 2 |
| 24 | <u>Mycobacterium</u> spp.  | 2 |
| 25 | Enterobacteriaceae (part1) | 2 |
| 26 | Enterobacteriaceae (part2) | 2 |
| 27 | Enterobacteriaceae( part3) | 2 |
| 28 | <u>Neisseriae</u> spp.     | 2 |
| 29 | Virology                   | 2 |
| 30 | Mycology                   | 2 |



|   |   |
|---|---|
| <b>12. Infrastructure</b>   |   |
| 1-Books required reading  | Medical microbiology Jawetz, Melnick, & Adelberg's (2016)<br>- Oral microbiology Marsh & Martin's (2016)<br>-Kuby Immunology Eighth Edition ©2019<br>-Essential Microbiology for Dentistry 5th Edition (2018)   |
| 2-Main reference sources<br>n- - Recommended books and references<br>(scientific journals, reports...). |   |
| b-Electronic references, Internet sites...  | The faculty website   |
| <b>13. The development of the curriculum plan</b>   | 1-Development of academic content by deletion, addition and replacement.<br>2-Using modern methods of teaching appropriate to the level of learners from time to time.<br>3-Updating the assessment methods and measuring the level of students.4- Encouraging e-learning.<br>5-Providing the student with the skills required by the dental profession and the changes of the times. |

**Laboratory session**

| No. | Title of the sessions   | Hours |
|-----|---|-------|
| 1   | Orientation to the Microbiology laboratory  | 2     |
| 2   | The microscope  | 2     |
| 3   | Sterilisation and disinfection:   | 2     |
| 4   | Bacterial growth  | 2     |
| 5   | Types of culture media  | 2     |
| 6   | Sampling and transport of test material   | 2     |
| 7   | Laboratory cultivation of microorganisms  | 2     |
| 8   | Bacterial identification: 1-Macroscopical characteristics (colonial morphology and cultural characteristics). | 2     |
| 9   | 2. Microscopically examination (morphology of bacterial cells).   | 2     |
| 10  | Staining  | 2     |
| 11  | Biochemical tests (part 1).   | 2     |
| 12  | Biochemical tests(part2).   | 2     |
| 13  | Biochemical tests(part3).   | 2     |
| 14  | Antibiotic sensitivity test (part 1).   | 2     |
| 15  | Antibiotic sensitivity test (part 2).   | 2     |

| No.   | Title of the sessions  | Hours |
|-------|--|-------|
| 16    | Serological tests (antigen and antibody detection tests) (part 1). | 2     |
| 17    | Serological tests (antigen and antibody detection tests) (part 2). | 2     |
| 18    | Nucleic acid assays, Animal pathogenicity test                     | 2     |
| 19    | Staphylococci  | 2     |
| 20    | Streptococci   | 2     |
| 21    | Corynebacterium  | 2     |
| 22    | Spore-forming Gram-positive bacilli: Bacillus spp.                 | 2     |
| 23    | Clostridium spp.   | 2     |
| 24    | Mycobacterium spp.   | 2     |
| 25    | Enterobacteriaceae (part1)   | 2     |
| 26    | Enterobacteriaceae (part2)   | 2     |
| 27    | Enterobacteriaceae (part3)   | 2     |
| 28    | Neisseria spp.   | 2     |
| 29    | Virology   | 2     |
| 30    | Mycology   | 2     |
| Total |  | 60    |

|  |  |
|--|--|
| <b>171. Educational Institution</b>  | Ministry of Higher Education and Scientific Research |
| <b>172. University Department/Centre</b>   | Scientific Department, Basic Sciences                |
| <b>173. The name/code of the Academic Programme</b>  | Pharmacology /317PC                                  |
| <b>174. Programmes included</b>  | Pharmacology (Dentistry)                             |
| <b>175. Available Academic Courses</b>   | Student attendance is 100% for all academic year     |
| <b>176. Academic Study System /Year</b>  | Two semesters/ third stage                           |
| <b>177. Number of hours (total)</b>  | 60 theoretical hours and 60 practical hours          |
| <b>178. Preparation Date of this Description</b>   | 2021-2022-.  |
| <b>179. Objectives of the Academic Programme:</b>  |  |
| To prepare students at a high level of scientific knowledge and accuracy in dealing with medications used and prescribed in their specialty as a dentist and other specialties (medicines in general), so that no kind of interference can occurs. |  |
|  |  |

## 179. Programme outputs and teaching, learning and assessment methods

### A. Cognitive Objectives (Knowledge and Understanding)

A.1 – learning the effective medication for treating different body system diseases.

A.2 - Learning the medications used in dentistry.

A.3 – enabling the student to possess sufficient medical knowledge in pharmacology

### B. Programme Skill Objectives

B.1 – Develop the student's ability to link theoretical and practical information and analyze it to reach the best methods and results.

B.2 – Enable the student to know the practical methods adopted in laboratory measurements and according to the test.

B.3 – Contribute to the development of the student's skills to communicate with the reading and analysis of medical reports, research and studies related to the field of specialization.

### Methods of Teaching and Learning

Theoretical lectures on Data Show

### Assessment Methods

Long and short exams

### C. Thinking Skills

C.1 – Ability to solve problems

C.2 - Acquire the basic principles stipulated in the learning curriculum.

C.3 - Develop the student's ability to discuss and dialogue.

C.4 -

### Methods of Teaching and Learning

Practical and theoretical lectures.

### Assessment Methods

Examinations

**D. General and gained skills (other skills related to employability and personal development).**

D.1 – Students are scientifically prepared.

D.2 - Thinking about solving problems.

D3- Teaching professional ethics.

D4- The skills acquired for the student to become a dentist capable of treating patients.

D5- Developing the student's ability to deal with multiple means of learning.

| <b>11. Academic Course structure</b> |              |                             |   |  |   |
|--------------------------------------|--------------|-----------------------------|---|--|---|
| <b>week</b>                          | <b>hours</b> | <b>Academic course name</b> | <b>Theoretical contents</b>   | <b>Teaching method</b>                 | <b>Assessment method</b>                    |
| ١                                    | ١            | <b>Pharmacology</b>         | <b>Pharmacology: General concepts</b>   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٢                                    | ١            | <b>Pharmacology</b>         | <b>Pharmacokinetics and pharmacodynamics</b>  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٣                                    | ١            | <b>Pharmacology</b>         | <b>Autonomic nervous system from a pharmacological perspective (including cholinergic agonist and antagonist)</b> | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٤                                    | 1            | <b>Pharmacology</b>         | <b>Adrenergic agonists</b>  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٥                                    | ١            | <b>Pharmacology</b>         | <b>Adrenergic antagonists</b>   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٦                                    | ١            | <b>Pharmacology</b>         | <b>Antihypertensive drugs</b>   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٧                                    |              | <b>Pharmacology</b>         | <b>Management of angina and heart failure</b>   | A theoretical lesson using             | Short, quarterly, half-year and final exams |
| ٨                                    | ١            | <b>Pharmacology</b>         | <b>Management of arrhythmia</b>   | A theoretical                          | Short, quarterly, half-year and             |

|    |   |                     |   |  |   |
|----|---|---------------------|---|--|---|
|    |   |                     |   | lesson using Power Point               | final exams                                 |
| ٩  | ١ | <b>Pharmacology</b> | <b>Anticoagulants, antiplatelet and anti-hyperlipidemic drugs</b>                             | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ١٠ | ١ | <b>Pharmacology</b> | <b>Introduction the pharmacology of CNS drugs, sedative, hypnotics and antiseizures drugs</b> | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ١١ | ١ | <b>Pharmacology</b> | <b>Antipsychotic and antidepressant drugs</b>   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ١٢ | ١ | <b>Pharmacology</b> | <b>Local and general anaesthetics</b>   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ١٣ | ١ | <b>Pharmacology</b> | <b>Drug of abuse and opioid analgesics</b>  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ١٤ | ١ | <b>Pharmacology</b> | <b>Managements of diabetes mellitus</b>   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ١٥ | ١ | <b>Pharmacology</b> | <b>Drugs affecting GIT</b>  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ١٦ | ١ | <b>Pharmacology</b> | <b>Drugs acting on respiratory system (antihistamines and corticosteroids)</b>                |  |   |

### *Laboratory sessions*

|    |   |                     |  |  |   |
|----|---|---------------------|--|--|---|
| ١٧ | ١ | <b>Pharmacology</b> | <b>Non-steroidal anti-inflammatory drugs (NSAIDs) part 1</b>                           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ١٨ | ١ | <b>Pharmacology</b> | <b>Non-steroidal anti-inflammatory drugs (NSAIDs) part2 and Sterioids in Dentistry</b> | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ١٩ | ١ | <b>Pharmacology</b> | <b>Chemotherapeutic drugs (Principles of antimicrobial therapy)</b>                    | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٢٠ | ١ | <b>Pharmacology</b> | <b>Cell wall inhibitors (part1)</b>  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٢١ | ١ | <b>Pharmacology</b> | <b>Cell wall inhibitors (part 2)</b>   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٢٢ | 1 | <b>Pharmacology</b> | <b>Protein synthesis inhibitors</b>  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٢٣ | 1 | <b>Pharmacology</b> | <b>Quinolones, Folic acid antagonists and antimycobacterial</b>                        | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٢٤ | 1 | <b>Pharmacology</b> | <b>Antifungal, antiviral and antiprotozoal drugs</b>                                   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٢٥ | 1 | <b>Pharmacology</b> | <b>Sex hormone and contraceptive</b>   | A theoretical                          | Short, quarterly, half-year and             |



|    |   |                     |   |  |   |
|----|---|---------------------|---|--|---|
|    |   |                     |   | lesson using Power Point               | final exams                                 |
| ٢٦ | 1 | <b>Pharmacology</b> | <b>Thyroid hormones and anti-thyroid drugs</b>                        | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٢٧ | 1 | <b>Pharmacology</b> | <b>Anticancer drugs</b>   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٢٨ | 1 | <b>Pharmacology</b> | <b>Dental Pharmacology: drugs and chemicals used in dental clinic</b> | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٢٩ | 1 | <b>Pharmacology</b> | <b>Anticaries and drugs used in prevention of dental plaque</b>       | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٣٠ | 1 | <b>Pharmacology</b> | <b>Essential emergency drugs in dental clinic</b>                     | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |

| No. | Title of the sessions   | Hours |
|-----|---|-------|
| 1   | Introduction and animal (e.g rabbits) handling                          | 2     |
| 2   | Routes of drug administration (Oral route) -Part 1                      | 2     |
| 3   | Routes of drug administration (Parenteral route) - Part 2               | 2     |
| 4   | Clinical parameters in drug pharmacokinetics (Part 1)                   | 2     |
| 5   | Clinical parameters in drug pharmacokinetics (Part 2)                   | 2     |
| 6   | Demonstration of common dosage forms used in clinical practice (Part 1) | 2     |
| 7   | Demonstration of common dosage forms used in dentistry (Part 2)         | 2     |

| <b>11. Academic Course structure (practical side)</b> |              |                             |  |  |   |
|---|--------------|-----------------------------|--|--|---|
| <b>week</b>   | <b>hours</b> | <b>Academic course name</b> | <b>contents</b>  | <b>Teaching method</b>   | <b>Assessment method</b>                                |
| ١   | 2            | <b>Pharmacology</b>         | <b>Introduction and animal (e.g rabbits) handling</b>                          | Explain the theoretical part using Power Point and then apply the practical part | Quizzi exams, practical part assessment, and final exam |
| ٢   | 2            | <b>Pharmacology</b>         | <b>Routes of drug administration (Oral route) -Part 1</b>                      | Explain the theoretical part using Power Point and then apply the practical part | Quizzi exams, practical part assessment, and final exam |
| ٣   | 2            | <b>Pharmacology</b>         | <b>Routes of drug administration (Parenteral route )- Part 2</b>               | Explain the theoretical part using Power Point and then apply the practical part | Quizzi exams, practical part assessment, and final exam |
| ٤   | 2            | <b>Pharmacology</b>         | <b>Clinical parameters in drug pharmacokinetics (Part 1)</b>                   | Explain the theoretical part using Power Point and then apply the practical part | Quizzi exams, practical part assessment, and final exam |
| ٥   | 2            | <b>Pharmacology</b>         | <b>Clinical parameters in drug pharmacokinetics (Part 2)</b>                   | Explain the theoretical part using Power Point and then apply the practical part | Quizzi exams, practical part assessment, and final exam |
| ٦   | 2            | <b>Pharmacology</b>         | <b>Demonstration of common dosage forms used in clinical practice (Part 1)</b> | Explain the theoretical part using Power Point and then apply the practical part | Quizzi exams, practical part assessment, and final exam |
| ٧   | 2            | <b>Pharmacology</b>         | <b>Demonstration of common dosage forms used in dentistry (Part 2)</b>         | Explain the theoretical part using Power Point and then apply                    | Quizzi exams, practical part assessment, and final exam |

|    |   |                     |  |  |   |
|----|---|---------------------|--|--|---|
|    |   |                     |  | the practical part   |   |
| ٨  | 2 | <b>Pharmacology</b> | <b>Cholinergic agonists and antagonists (Physostigmine Vs Curare)</b>                          | Explain the theoretical part using Power Point and then apply the practical part | Quizzi exams, practical part assessment, and final exam |
| ٩  | 2 | <b>Pharmacology</b> | <b>Effects of Drugs on Human Blood Pressure (Part 1-B-Blockers)</b>                            | Explain the theoretical part using Power Point and then apply the practical part | Quizzi exams, practical part assessment, and final exam |
| ١٠ | 2 | <b>Pharmacology</b> | <b>Effects of Drugs on Human Blood Pressure (Part 2) (Nitrates Effect on Human Volunteers)</b> | Explain the theoretical part using Power Point and then apply the practical part | Quizzi exams, practical part assessment, and final exam |
| ١١ | 2 | <b>Pharmacology</b> | <b>Effects of Drugs on The Arterial Blood Pressure of Human (Part-3)</b>                       | Explain the theoretical part using Power Point and then apply the practical part | Quizzi exams, practical part assessment, and final exam |
| ١٢ | 2 | <b>Pharmacology</b> | <b>The effects of drugs and light on human eyes</b>  | Explain the theoretical part using Power Point and then apply the practical part | Quizzi exams, practical part assessment, and final exam |
| ١٣ | 2 | <b>Pharmacology</b> | <b>The effects of drugs and light on animal eyes</b>   | Explain the theoretical part using Power Point and then apply the practical part | Quizzi exams, practical part assessment, and final exam |
| ١٤ | 2 | <b>Pharmacology</b> | <b>Effects of parasympathomimetic drugs on glandular secretions</b>                            | Explain the theoretical part using Power Point and then apply the practical part | Quizzi exams, practical part assessment, and final exam |
| ١٥ | 2 | <b>Pharmacology</b> | <b>The response of human skin to histamine and adrenaline</b>                                  | Explain the theoretical part using Power Point and then apply                    | Quizzi exams, practical part assessment, and final exam |

|    |   |                     |  |  |   |
|----|---|---------------------|--|--|---|
|    |   |                     |  | the practical part   |   |
| ١٦ | 2 | <b>Pharmacology</b> | <b>Effects of Antiepileptics</b>             | Explain the theoretical part using Power Point and then apply the practical part | Quizzi exams, practical part assessment, and final exam |
| ١٧ | 2 | <b>Pharmacology</b> | <b>Evaluation of Analgesics</b>              | Explain the theoretical part using Power Point and then apply the practical part | Quizzi exams, practical part assessment, and final exam |
| ١٨ | 2 | <b>Pharmacology</b> | <b>Evaluation of analgesics (Opioids)</b>    | Explain the theoretical part using Power Point and then apply the practical part | Quizzi exams, practical part assessment, and final exam |
| ١٩ | 2 | <b>Pharmacology</b> | <b>Evaluation of Anti-inflammatory Drugs</b> | Explain the theoretical part using Power Point and then apply the practical part | Quizzi exams, practical part assessment, and final exam |
| ٢٠ | 2 | <b>Pharmacology</b> | <b>Local Anaesthesia</b>                     | Explain the theoretical part using Power Point and then apply the practical part | Quizzi exams, practical part assessment, and final exam |
| ٢١ | 2 | <b>Pharmacology</b> | <b>General Anaesthesia</b>                   | Explain the theoretical part using Power Point and then apply the practical part | Quizzi exams, practical part assessment, and final exam |
| ٢٢ | 2 | <b>Pharmacology</b> | <b>Prescription writing (Part 1)</b>         | Explain the theoretical part using Power Point and then apply the practical part | Quizzi exams, practical part assessment, and final exam |
| ٢٣ | 2 | <b>Pharmacology</b> | <b>Prescription writing (Part 2)</b>         | Explain the theoretical part using Power Point and then apply                    | Quizzi exams, practical part assessment, and final exam |

|    |   |                     |   |  |   |
|----|---|---------------------|---|--|---|
|    |   |                     |   | the practical part   |   |
| ٢٤ | 2 | <b>Pharmacology</b> | <b>Prescription writing (Part 3)</b>  | Explain the theoretical part using Power Point and then apply the practical part | Quizzi exams, practical part assessment, and final exam |
| ٢٥ | 2 | <b>Pharmacology</b> | <b>Oral conditions and their treatment</b>  | Explain the theoretical part using Power Point and then apply the practical part | Quizzi exams, practical part assessment, and final exam |
| ٢٦ | 2 | <b>Pharmacology</b> | <b>Prescription writing for some general conditions commonly encountered in clinical practice</b> | Explain the theoretical part using Power Point and then apply the practical part | Quizzi exams, practical part assessment, and final exam |
| ٢٧ | 2 | <b>Pharmacology</b> | <b>Toothpastes and mouthwashes</b>  | Explain the theoretical part using Power Point and then apply the practical part | Quizzi exams, practical part assessment, and final exam |
| ٢٨ | 2 | <b>Pharmacology</b> | <b>Orodenal preparation (part 1)</b>  | Explain the theoretical part using Power Point and then apply the practical part | Quizzi exams, practical part assessment, and final exam |
| ٢٩ | 2 | <b>Pharmacology</b> | <b>Orodenal preparation (Part 2)</b>  | Explain the theoretical part using Power Point and then apply the practical part | Quizzi exams, practical part assessment, and final exam |
| ٣٠ | 2 | <b>Pharmacology</b> | <b>Dental health and endocarditis prevention</b>  | Explain the theoretical part using Power Point and then apply the practical part | Quizzi exams, practical part assessment, and final exam |

|          |  |          |
|----------|--|----------|
| <b>8</b> | Cholinergic agonists and antagonists (Physostigmine Vs Curare) | <b>2</b> |
| <b>9</b> | Effects of Drugs on Human Blood Pressure (Part 1-B-Blockers)   | <b>2</b> |

|             |  |   |
|-------------|--|---|
| 10          | Effects of Drugs on Human Blood Pressure (Part 2) (Nitrates Effect on Human Volunteers)    | 2 |
| 11          | Effects of Drugs on The Arterial Blood Pressure of Human (Part-3)                          | 2 |
| 12          | The effects of drugs and light on human eyes   | 2 |
| 13          | The effects of drugs and light on animal eyes  | 2 |
| 14          | Effects of parasympathomimetic drugs on glandular secretions                               | 2 |
| 15          | The response of human skin to histamine and adrenaline                                     | 2 |
| 16          | Effects of Antiepileptic   |   |
| 17          | Evaluation of Analgesics   | 2 |
| 18          | Evaluation of analgesics (Opioids)   | 2 |
| 19          | Evaluation of Anti-inflammatory Drugs  | 2 |
| 20          | Local Anesthesia   | 2 |
| 21          | General Anesthesia   | 2 |
| 22          | Prescription writing (Part 1)  | 2 |
| 23          | Prescription writing (Part 2)  | 2 |
| 24          | Prescription writing (Part 3)  | 2 |
| 25          | Oral conditions and their treatment  | 2 |
| 26          | Prescription writing for some general conditions commonly encountered in clinical practice | 2 |
| 27          | Toothpastes and mouthwashes  | 2 |
| 28          | Orodental preparation (part 1)   | 2 |
| 29          | Orodental preparation (Part 2)   | 2 |
| 30          | Dental health and endocarditis prevention  | 2 |
| <b>Exam</b> |  |   |

|   |  |
|---|--|
| <b>12. Infrastructure</b>   |  |
| <p>1-Books required reading</p> <p>2-Main reference sources</p> <p>o- - Recommended books and references (scientific journals, reports...).</p> | <ul style="list-style-type: none"> <li>▪ Pharmacology (Lippincott Illustrated Reviews Series) 7th Edition (2019)</li> <li>▪ Contemporary Dental Pharmacology <b>Evidence-Based Considerations 1st ed</b> (2019)</li> </ul> <p>Basic &amp; Clinical Pharmacology (<b>Fourteenth Edition</b>,2018)</p>   |
| <p>b-Electronic references, Internet sites...</p>   | <p>The faculty website</p>   |
| <b>13. The development of the curriculum plan</b>   | <p>1-Development of academic content by deletion, addition and replacement.</p> <p>2-Using modern methods of teaching appropriate to the level of learners from time to time.</p> <p>3-Updating the assessment methods and measuring the level of students.</p> <p>4- Encouraging e-learning.</p> <p>5-Providing the student with the skills required by the dental profession and the changes of the times.</p> |

|  |   |
|--|---|
| <b>1. Educational Institution</b>      | Ministry of Higher Education - College of Dentistry |
| <b>2. University Department/Centre</b> | Pedodontics and Preventive Dentistry                |

|   |   |  |
|---|---|--|
| <b>3. The name/code of the Academic Programme</b>   | Community Dentistry / 318CM             |  |
| <b>4. Programmes included</b>   | Dentistry                               |  |
| <b>5. Available Academic Courses</b>  | Theoretical lectures and practical labs |  |
| <b>6. Academic Study System /Year</b>   | Two semesters/Third stage               |  |
| <b>7. Number of hours (total)</b>   | 30 theoretical hours                    |  |
| <b>8. Preparation Date of this Description</b>  | 2021-2022-.                             |  |
| <b>9. Objectives of the Academic Programme</b>  |   |  |
| Providing information to students about the identification of oral pathology and its measure in the community to achieve the goal of control and prevention in the community through preventive programmes. |   |  |



## **10. Programme outputs and teaching, learning and assessment methods**

**A. Cognitive Objectives (Knowledge and Understanding)** A.1 - Drafting information to enable students to learn and understand them A.2 - Increasing student knowledge of ways to check teeth for decay and gum inflammation  
A.3 - Giving instructions and advice for the correct placement of a dentist during screening and treating while sitting on Dental Chair

### **B. Programme Skill Objectives**

B.1 - Gaining experience and information that helps them to identify the disease and know its causes  
B.2 – Identifying the device for tooth and learn the correct position for patient and dentist when sitting on a Dental Chair  
B.3 -Methods of screening tooth decay, gum inflammation, microbial plaques and calcification of teeth that help it to be a successful dentist in their treatment with patients.

### **Methods of Teaching and Learning**

1. Data Show
2. Educational Movies
3. LCD
4. Smart boards
5. Spin cameras
6. Electronic displays

### **Assessment Methods**

1. Daily exams for practical/ theoretical subjects
2. Clinical examination
3. Quarterly exam
4. Semester exam
5. Final Exams

### **C. Thinking Skills**

C.1.- Assessment of social behaviour and student achievements  
C.2.- Prompting students to solve problems and having a distinct thinking  
C.3.- Qualifying students to lead teams to serve, treat and educate the community and patients

### **Methods of Teaching and Learning**

Giving all information about oral diseases, especially those of the community, how to prevent them, and following up students through their expression, thinking, communication and response.

### **Assessment Methods**

1. Doing daily and final exams for clinic, lecture and grading
2. Testing student response with an intuitive speed
3. Keeping up with their daily preparation

### **D. General and gained skills (other skills related to employability and personal development).**

D.1.- Professional preparation and encouraging the student to behave positively in his or her daily life

D.2.- Scientific preparation and prompting student to communicate in other scientific areas

D.3.- Cultural preparation and student personal refinement

D.4 - Employment of skills gained so that the student becomes a dentist capable of treating patients

| 11. Academic Course Structure |       |  |                      |  |   |
|-------------------------------|-------|--|----------------------|--|---|
| Week                          | Hours | Theoretical content  | Academic Course name | Teaching Method                        | Assessment method                           |
| 1                             | 2     | Dental public health<br>Procedural steps in dental public health | Community            | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 2                             | 2     | Primary health care  | Community            | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 3                             | 2     | Dental indices   | Community            | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 4                             | 2     | Indices used for dental caries assessment                        | Community            | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 5                             | 2     |  | Community            | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 6                             | 2     | Indices used for oral hygiene and periodontal health assessment  | Community            | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 7                             | 2     | Biostatistics and dental science dental caries                   | Community            | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 8                             | 2     | Measures of central tendency & dispersion                        | Community            | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 9                             | 2     | Dental treatment needs and demand                                | Community            | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 10                            | 2     | Dental care for special groups<br>Dental manpower<br>Planning    | Community            | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 11                            | 2     | Examination  | Community            | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 12                            | 2     | Epidemiology of dental caries                                    | Community            | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |

| <b>Week</b> | <b>Hours</b> | <b>Theoretical content</b>              | <b>Academic Course name</b> | <b>Teaching Method</b>                 | <b>Assessment method</b>                    |
|-------------|--------------|---|-----------------------------|--|---|
| 13          | 2            | Forensic dentistry                      | Community                   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 14          | 2            | Age assessment in forensic dentistry    | Community                   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 15          | 2            |   | Community                   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 16          | 2            | Fluoridation as a public health measure | Community                   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 17          | 2            | Fluoridation, mechanism and effects     | Community                   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 18          | 2            | Dental ancillaries Personnel            | Community                   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 19          | 2            | Introduction to epidemiology            | Community                   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 20          | 2            | Tools of measurement in epidemiology    | Community                   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 21          | 2            | Epidemiology of periodontal disease     | Community                   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 22          | 2            | Epidemiological Studies                 | Community                   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 23          | 2            | Dental Health Education                 | Community                   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |

| Week | Hours | Theoretical content               | Academic Course name | Teaching Method                        | Assessment method                           |
|------|-------|-----------------------------------|----------------------|--|---|
| 24   | 2     | Principles of Health Education    | Community            | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 25   | 2     | School of Dental Health Programme | Community            | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 26   | 2     | Occupational Hazards              | Community            | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 27   | 2     | Environment and Health            | Community            | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 28   | 2     | Professional Ethics               | Community            | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 29   | 2     | Dental patient relationships      | Community            | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 30   | 2     | Infection control                 | Community            | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 31   | 2     | Sterilization                     | Community            | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |

***Clinical requirements***

| No. | Title of the sessions             | Hours |
|-----|-----------------------------------|-------|
| 1   | Community dentistry               | 2     |
| 2   | Patient's setting and examination | 2     |
| 3   | Clinical examination              | 2     |
| 4   | Basic tooth numbering             | 2     |
| 5   | Clinical examination              | 2     |
| 6   | Indices                           | 2     |
| 7   | Dental caries                     | 2     |
| 8   | Theories of caries formation      | 2     |
| 9   | Dental caries indices             | 2     |
| 10  | Clinical examination              | 2     |
| 11  | Clinical examination              | 2     |
| 12  | Deciduous teeth                   | 2     |
| 13  | Clinical examination              | 2     |
| 14  | Clinical examination              | 2     |
| No. | Title of the sessions             | Hours |

|       |  |    |
|-------|--|----|
| 15    | Prevention of dental caries                | 2  |
| 16    | Fluoride                                   | 2  |
| 17    | Periodontal diseases                       | 2  |
| 18    | Indices for plaque assessment              | 2  |
| 19    | Clinical examination                       | 2  |
| 20    | Clinical examination                       | 2  |
| 21    | Indices for calculus assessment            | 2  |
| 22    | Clinical examination                       | 2  |
| 23    | Clinical examination                       | 2  |
| 24    | Gingival disease indices                   | 2  |
| 25    | Clinical examination                       | 2  |
| 26    | Clinical examination                       | 2  |
| 27    | Periodontal diseases prevention            | 2  |
| 28    | Tooth brushing / mechanical plaque control | 2  |
| 29    | Clinic.....assistant                       | 2  |
| 30    | Clinic.....assistant                       | 2  |
| Total |  | 60 |

|  |  |
|--|--|
| <b>12. Infrastructure</b>  |  |
| 1-Books required reading   | <p>-Principle and practice of public health dentistry by Krishna and Dasar,2010</p> <p>-Community dentistry by Siri and Sikri, 2008</p> <p>-Primary preventive dentistry by Harris and Christen ,1995</p> <p>External sources</p> <p>-Essentials of preventive and community dentistry by Peter,2003</p> <p>-Preventive and Community Dentistry Public Health DentistryThird Edition.</p> <p>- A Textbook of Public Health Dentistry, CM Marya,JAYPEE BROTHERS MEDICAL PUBLISHERS (P) LTD,2011</p> |
| 2-Main reference sources<br>p- - Recommended books and references (scientific journals, reports...). |  |
| b-Electronic references, Internet sites...   | The faculty website  |
| <b>13. The development of the curriculum plan</b>  | <p>1-Development of academic content by deletion, addition and replacement.</p> <p>2-Using modern methods of teaching appropriate to the level of learners from time to time.</p> <p>3-Updating the assessment methods and measuring the level of students.4- Encouraging e-learning.</p>  |

5-Providing the student with the skills required by the dental profession and the changes of the times.

|  |  |
|--|--|
| <b>1. Institution</b>  | Higher education - College of Dentistry      |
| <b>2. University Department/Centre</b>   | College of Dentistry                         |
| <b>3. The name/code of the Academic Programme</b>  | 319CV Conservative Dentistry                 |
| <b>4. Programmes included</b>  | Conservative Dentistry (Dentistry)           |
| <b>5. Available Academic Courses</b>   | 100%   |
| <b>6. Academic Study System/Year</b>   | Two semesters/ Third Stage                   |
| <b>7. Number of hours (total)</b>  | 60 theoretical hours and 120 practical hours |
| <b>8. Preparation Date of this Description</b>   |  |
| <b>9. Objectives of the Academic Programme</b>   |  |
| Students are trained on filling, dental amalgam, denture making and prosthodontics before they begin clinically treating patients. |  |



## 10. Programme outputs and teaching, learning and assessment methods

### **A. Cognitive Objectives (Knowledge and Understanding)**

- A.1 – To formulate and programme information in such a way as to enable the students to understand it and increase knowledge regarding the theoretical and practical aspects
- A.2 - Providing important information and treatment steps.
- A.3 -
- A.4 -
- A.5 -
- A.6 -

### **B. Programme Skill Objectives**

- B.1 - Students are trained in dental preparation by types of crowns
- B.2- Teaching the students to work on the teeth that are fixed on the heads of the phantom

### **Methods of Teaching and Learning**

Data Show, Lecture, LCD and Educational Movies,

### **Assessment Methods**

Theoretical, practical (clinical) and quiz exams.

### **C. Thinking Skills**

- C.1 – ability to solve problems
- C.2 – ability to leadership
- C.3 -
- C.4 -

### **Methods of Teaching and Learning**

Theoretical and practical lessons (stimulus and response)

### **Assessment Methods**

Examinations

### **D. General and gained skills (other skills related to employability and personal development).**

- D.1 - Student preparation in practice in terms of applying knowledge gained in dental treatment on the heads of the phantom.
- D.2 -
- D.3 -
- D.4 -

| 11. Academic Course structure |       |  |  |                        |  |   |
|-------------------------------|-------|--|--|------------------------|--|---|
| Week                          | Hours |  | Theoretical content  | Academic Course name   | Teaching Method                        | Assessment method                           |
| 1                             | 1     |  | Definitions: <ul style="list-style-type: none"> <li>- Introduction to Fixed Prosthodontics.</li> <li>- Types of crowns.</li> <li>- Purposes of crown construction.</li> <li>- Steps in crown construction.</li> <li>- Components of bridge.</li> </ul> | Conservative Dentistry | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
|                               | 1     |  | Definition of operative dentistry: <ol style="list-style-type: none"> <li>a. Aim of operative dentistry</li> <li>b. General terminology</li> </ol>   |                        |  |   |
| 2                             | 1     |  | Definitions (continued):   | Conservative Dentistry | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
|                               | 1     |  | Principles of cavity preparations: <ol style="list-style-type: none"> <li>a. Steps of cavity preparation</li> <li>b. Types of caries</li> </ol>  |                        |  |   |
| 3                             | 1     |  | Definitions (continued):   | Conservative Dentistry | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
|                               | 1     |  | Hand and rotary instruments and general instrumentation of cavity preparation  |                        |  |   |
| 4                             | 1     |  | Biomechanical principles of tooth preparation: <ul style="list-style-type: none"> <li>• Preservation of sound tooth</li> <li>• Retention and</li> <li>• Resistance form.</li> <li>• Marginal integrity.</li> <li>• Structural durability.</li> </ul>   | Conservative Dentistry | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
|                               | 1     |  | Sterilization of operative instruments   |                        |  |   |
| 5                             | 1     |  | Biomechanical principles of tooth preparation (continued):   | Conservative Dentistry | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
|                               | 1     |  | Amalgam cavity preparations for class 1 (buccal pit, palatal pit)  |                        |  |   |
| 6                             | 1     |  | Biomechanical principles of tooth preparation (continued:)   | Conservative Dentistry | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
|                               | 1     |  | Amalgam cavity preparations for class 1 (lower 2 <sup>nd</sup> premolar, lower 1 <sup>st</sup> premolar)   |                        |  |   |

| Week | Hours | Theoretical content   | Academic Course name   | Teaching Method                        | Assessment method                           |
|------|-------|---|------------------------|--|---|
| 7    | 1     | Full metal crown: Indications, contra- indications, advantages, disadvantages, steps of preparation.                                | Conservative Dentistry | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
|      | 1     | Amalgam cavity preparations for class I (upper 1 <sup>st</sup> molar with palatal extension)  |                        |  |   |
| 8    | 1     | Full metal crown (continued):   | Conservative Dentistry | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
|      | 1     | Amalgam cavity preparations for class I (lower 1 <sup>st</sup> molar with palatal extension)  |                        |  |   |
| 9    | 1     | Porcelain fused to metal crown: Indications, contra- indications, advantages, disadvantages, steps of preparation.                  | Conservative Dentistry | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
|      | 1     | Amalgam cavity preparations for class II (part 1)   |                        |  |   |
| 10   | 1     | Porcelain fused to metal crown (continued):   | Conservative Dentistry | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
|      | 1     | Amalgam cavity preparations for class II (part 2)   |                        |  |   |
| 11   | 1     | Complete ceramic crown (Porcelain Jacket Crown: Indications, contrap- indications, advantages, disadvantages, steps of preparation. | Conservative Dentistry | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
|      | 1     | Amalgam cavity preparations for class II MOD  |                        |  |   |
| 12   | 1     | Complete ceramic crown (Porcelain Jacket Crown(continued):  | Conservative Dentistry | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
|      | 1     | Amalgam cavity preparations for class III   |                        |  |   |
| 13   | 1     | Partial veneer crown (three-quarter crown): Indications, contrap- indications, advantages, disadvantages, steps of preparation.     | Conservative Dentistry | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
|      | 1     | Amalgam cavity preparations for class V   |                        |  |   |

| Week | Hours | Theoretical content  | Academic Course name   | Teaching Method                        | Assessment method                           |
|------|-------|--|------------------------|--|---|
| 14   | 1     | Partial veneer crown (three-quarter crown):  | Conservative Dentistry | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
|      | 1     | Cavity liners and cement bases   |                        |  |   |
| 15   | 1     | Post crown:<br>Indications, contra-indications, factors to be considered in the assessment of a tooth for post   | Conservative Dentistry | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
|      | 1     | cement bases (Zinc phosphate cement, Zinc oxide – eugenol cements)   |                        |  |   |
| 16   | 1     | Post crown (continued):  | Conservative Dentistry | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
|      | 1     | cement bases (Zinc polycarboxylate cement, Glass ionomer cement, Resin cement)   |                        |  |   |
| 17   | 1     | Impression for crown and bridge work: <ul style="list-style-type: none"> <li>- Objectives of taking impression.</li> <li>- Requirements of an acceptable impression.</li> <li>- Impression materials.</li> <li>- Impression techniques.</li> </ul> | Conservative Dentistry | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
|      | 1     | Cavity liner (cavity varnish, Bonding, Calcium hydroxide)  |                        |  |   |
| 18   | 1     | Impression for crown and bridge work (continued):  | Conservative Dentistry | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
|      | 1     | Dental amalgam alloys (material)   |                        |  |   |
| 19   | 1     | Impression for crown and bridge work (continued):  | Conservative Dentistry | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
|      | 1     | Dental amalgam placement (part 1)  |                        |  |   |
| 20   | 1     | Provisional restoration: Definition, objectives, types (prefabricated, custom-made, and laboratory-made)   | Conservative Dentistry | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
|      | 1     | Dental amalgam placement (part 2)  |                        |  |   |

| <b>Week</b> | <b>Hours</b> | <b>Theoretical content</b>  | <b>Academic Course name</b> | <b>Teaching Method</b>                 | <b>Assessment method</b>                    |
|-------------|--------------|---|-----------------------------|--|---|
| 21          | 1            | Provisional restoration (continued):  | Conservative Dentistry      | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
|             | 1            | Complex amalgam restoration   |                             |  |   |
| 22          | 1            | Working cast and dies: Advantages of working cast, definition of die, types of die material, techniques of producing die. | Conservative Dentistry      | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
|             | 1            | Pin retained amalgam restoration  |                             |  |   |
| 23          | 1            | Working cast and dies (continued):  | Conservative Dentistry      | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
|             | 1            | Failures in amalgam restorations  |                             |  |   |
| 24          | 1            | Waxing.   | Conservative Dentistry      | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
|             | 1            | Tooth coloured restorations composite   |                             |  |   |
| 25          | 1            | Investing.  | Conservative Dentistry      | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
|             | 1            | Composite resin (material)  |                             |  |   |
| 26          | 1            | Casting.  | Conservative Dentistry      | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
|             | 1            | Principles of cavity preparation for composite restoration (CL III, IV and V)   |                             |  |   |
| 27          | 1            | Finishing of the casting.   | Conservative Dentistry      | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
|             | 1            | Composite resin placement (part 1)  |                             |  |   |
| 28          | 1            | Clinical try-in   | Conservative Dentistry      | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
|             | 1            | Composite resin placement (part 2)  |                             |  |   |

| Week | Hours | Theoretical content  | Academic Course name   | Teaching Method                        | Assessment method                           |
|------|-------|--|------------------------|--|---|
| 29   | 1     | Cementation:<br>Types of cements used - for cementation of crown restoration-Techniques – of cementation | Conservative Dentistry | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
|      | 1     | Failures in anterior restorations  |                        |  |   |
| 30   | 1     | Cementation(continued):  | Conservative Dentistry | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
|      | 1     | Fluoride releasing materials   |                        |  |   |

### Laboratory session

| No. | Title of the sessions   | Hours |
|-----|---|-------|
|     | <b>Operative Dentistry</b>  |       |
| 1   | Introduction to operative dentistry, and to work in phantom lab. Demonstration about the rotary instrument, and how to cut geometrical cavities (circle, triangle, square, rectangle, and dove- tail), and leave students to work under supervision.          | 2     |
| 2   | Demonstration of how to use phantom head, working positions for both student and phantom head, also demonstration cavity preparation on buccal pit of lower 1 <sup>st</sup> molar and palatal pit of upper lateral incisor.                                   | 2     |
| 3   | Demonstration of principles of amalgam cavity preparation for CL I on the occlusal surface of lower 2 <sup>nd</sup> premolar on the board then do demonstration of cutting on the phantom head. Quiz about the principles of CL I amalgam cavity preparation. | 2     |
| 4   | Demonstration amalgam CL I cavity for lower 1 <sup>st</sup> premolar and Leave students to work under supervision.  | 2     |
| 5   | Demonstration amalgam CL I cavity for upper 1 <sup>st</sup> molar (two separated cavities) on the phantom head and teaching the students how to work indirectly by using mirror. Leave students to work under supervision.                                    | 2     |
| 6   | Demonstration amalgam cavity for the palatal extension in upper 1 <sup>st</sup> molar (continue with last lab in distal occlusal cavity), and Demonstration on the hand instrument groups and teach students to differentiate between them.                   | 2     |
| 7   | Practical assessment for the students in amalgam CL I cavity on lower 1 <sup>st</sup> molar. Oral quizzes on the hand instrument and their groups.  | 2     |
| 8   | Demonstration amalgam CL II MO cavity for lower 1 <sup>st</sup> premolar  | 2     |
| 9   | Demonstration amalgam CL II MO cavity for upper 1 <sup>st</sup> molar   | 2     |
| 10  | Practical assessment for the students in amalgam CL II MO cavity on lower 1 <sup>st</sup> molar. Quiz in amalgam CL II cavity lectures.   | 2     |
| 11  | Demonstration amalgam CL II MOD cavity for lower 1 <sup>st</sup> molar  | 2     |
| 12  | Demonstration amalgam CL II MOD cavity for upper 2 <sup>nd</sup> molar  | 2     |

| No.   | Title of the sessions<br><b>Operative Dentistry</b>  | Hours |
|-------|--|-------|
| 13    | Practical assessment for the students in cavity preparation of amalgam CL II MOD cavity on lower 2 <sup>nd</sup> molar.  | 2     |
| 14    | Demonstration amalgam CL V cavity for lower 2 <sup>nd</sup> premolar, upper 1 <sup>st</sup> molar and upper 2 <sup>nd</sup> premolar.                                  | 2     |
| 15    | Demonstration amalgam CL III cavity in distal side of upper canine.  | 2     |
| 16    | Demonstration of the liner and base placement, their indication, advantage, and uses.  | 2     |
| 17    | Supervised students in mixing and placing zinc phosphate cement in CL II DO cavity of lower 2 <sup>nd</sup> premolar.  | 2     |
| 18    | Supervised students in mixing and placing zinc phosphate cement in CL II MO cavity of upper 1 <sup>st</sup> molar and CL II MOD cavity of lower 2 <sup>nd</sup> molar. | 2     |
| 19    | Practical assessment for the students in zinc phosphate mixing and placement in CL II MOD cavity on lower 1 <sup>st</sup> molar.                                       | 2     |
| 20    | Amalgam filling of CL I cavity of lower 1st premolar   | 2     |
| 21    | Amalgam filling of CL II cavity of lower 2nd premolar.   | 2     |
| 22    | Amalgam filling of CL II cavity of upper 1st molar.  | 2     |
| 23    | Amalgam filling of CL II MOD cavity of upper 2nd molar.  | 2     |
| 24    | Practical assessment on Amalgam filling of CL II MOD cavity of lower 1st molar.  | 2     |
| 25    | Amalgam filling of CL V cavities of upper 1st molar and lower 2nd premolar.  | 2     |
| 26    | Preparation of CL III composite cavity on upper central incisor with composite filling placement (light cure)  | 2     |
| 27    | Preparation of CL III composite cavity on upper lateral incisor with composite filling placement (light cure)  | 2     |
| 28    | Preparation of CL V composite cavity on upper central incisor with composite filling placement (light cure).   | 2     |
| 29    | Final practical assessment.  | 2     |
| 30    | Finishing and evaluation of the practical work.  | 2     |
| Total |  | 60    |

#### Laboratory session

| No. | Title of the sessions<br><b>Preclinical Fixed Prosthodontics</b>                        | Hours |
|-----|---|-------|
| 1   | Introduction on the lab work, phantom heads and teeth manikins                          | 2     |
| 2   | Demonstration about the rotary instrument and how to cut geometrical cavities (Part 1). | 2     |
| 3   | Demonstration about the rotary instrument and how to cut geometrical cavities (Part 2). | 2     |
| 4   | Demonstration on full metal crown preparation on lower 1 <sup>st</sup> molar.           | 2     |
| 5   | Demonstration on full metal crown preparation on lower 2 <sup>nd</sup> molar.           | 2     |
| 6   | Practicing lab under supervision.   | 2     |

| No.   | Title of the sessions  | Hours |
|-------|--|-------|
|       | <b>Preclinical Fixed Prosthodontics</b>  |       |
| 7     | Practicing lab under supervision.  | 2     |
| 8     | Practical assessment of full metal crown preparation on lower 1 <sup>st</sup> molar.                   | 2     |
| 9     | Demonstration on porcelain fused to metal crown preparation on upper central incisor.                  | 2     |
| 10    | Demonstration on porcelain fused to metal crown preparation on upper lateral incisor.                  | 2     |
| 11    | Practicing lab under supervision.  | 2     |
| 12    | Practicing lab under supervision.  | 2     |
| 13    | Practical assessment of porcelain fused to metal crown preparation on upper central incisor.           | 2     |
| 14    | Demonstration on post crown preparation on extracted root canal filled upper canine.                   | 2     |
| 15    | Demonstration on post crown preparation on extracted root canal filled lower 1 <sup>st</sup> premolar. | 2     |
| 16    | Practicing lab under supervision.  | 2     |
| 17    | Practicing lab under supervision.  | 2     |
| 18    | Practical assessment of post crown preparation on extracted root canal filled upper canine.            | 2     |
| 19    | Demonstration on special tray construction.  | 2     |
| 20    | Demonstration on impression materials used in Fixed Prosthodontics.                                    | 2     |
| 21    | Demonstration on impression techniques in Fixed Prosthodontics.  | 2     |
| 22    | Demonstration on die construction using dowel pin.   | 2     |
| 23    | Demonstration on provisional restoration (Part 1): Materials.  | 2     |
| 24    | Demonstration on provisional restoration (Part 2): Techniques.   | 2     |
| 25    | Demonstration on direct waxing for post crown construction on upper canine.                            | 2     |
| 26    | Demonstration on indirect waxing technique.  | 2     |
| 27    | Demonstration on investing and casting.  | 2     |
| 28    | Demonstration on cleaning and finishing of the cast restoration.                                       | 2     |
| 29    | Final assessment of the practical work.  | 2     |
| 30    | Final practical exam.  | 2     |
| Total |  | 60    |

|  |  |
|--|--|
| <b>12. Infrastructure</b>  |  |
| 1-Books required reading   | Contemporary fixed prosthodontics, Fundamental Consideration in Fixed Prosthodontics<br>Art & Science of operative dentistry, Restorative Dentistry<br>Walmsley<br>et al, Fundamental in Operative Dentistry<br>Text book of operative dentistry                           |
| 2-Main reference sources<br>q- - Recommended books and references (scientific journals, reports...). |  |
| b-Electronic references, Internet sites...   | The faculty website  |
| <b>13. The development of the curriculum plan</b>  | 1-Development of academic content by deletion, addition and replacement.<br>2-Using modern methods of teaching appropriate to the level of learners from time to time.<br>3-Updating the assessment methods and measuring the level of students.4- Encouraging e-learning. |



5-Providing the student with the skills required by the dental profession and the changes of the times.

|   |  |
|---|--|
| <b>1. Educational Institution</b>   | Ministry of Higher Education and Scientific Research/<br>University of Baghdad |
| <b>2. University Department/Centre</b>  | College of Dentistry / Branch of Dental Radiology                              |
| <b>3. The name/code of the Academic Programme</b>   | Dental Radiology 320RL   |
| <b>4. Programmes included</b>   | Dentistry  |
| <b>5. Available Academic Courses</b>  | Lectures, seminars, workshops and summer trainings                             |
| <b>6. Academic Study System/year</b>  | Two semesters/Third stage  |
| <b>7. Number of hours (total)</b>   | 30 theoretical hours and 60 practical hours                                    |
| <b>8. Preparation Date of this Description</b>  | 2021-2022-.  |
| <b>9. Objectives of the Academic Programme:</b>   |  |
| The aim of the programme is to qualify dentists who can read and diagnose x-ray, can operate x-ray apparatus correctly and have knowledge in dental radiology and able to deal with the risks of radiation. |  |

#### **10. Programme outputs and teaching, learning and assessment methods**

**A. Cognitive Objectives (Knowledge and Understanding)**

A.1 - To enable the student to use the radiators correctly

A.2 - explain the importance and risks of radiation protection and prevention

A.3 - enable the students to read and diagnose radiological images of various types

A.4 - give adequate information on the latest types of equipment and diagnostic methods in the field of oral and maxillofacial x-rays.

D.2 -

A.5 -

A.6-

**B. Programme Skill Objectives**

- B.1 -Reads radiological images
- B.2 -Use of devices
- B.3 -The ability to protect against radiation hazards
- B.4 –

**Methods of Teaching and Learning**

Theoretical Lessons  
Scientific discussions and seminars using screens (LCD)  
Use of methods of clarification such as radiographs and videos

**Assessment Methods**

Weekly exams  
Mid-year and end-of-year exams  
The evaluation of the seminars prepared by the student  
Evaluation of the practical product

**C. Thinking Skills**

- C.1 - Student integration with the subjects and beginning to consider solutions to address obstacles encountered in the Academic Course of the work
- C.2 -
- C.3 -
- C.4–

**Methods of Teaching and Learning**

Theoretical Lectures  
Scientific discussions and seminars using screens (LCD)  
Use of methods of clarification such as radiographs and videos

**Assessment Methods**

Weekly exams  
Half-year and end-of-year exams  
Assessment of the seminars prepared by students  
Assessment of the practical product

**D – General and gained skills (other skills related to employability and personal development.)**

D.1- Lecturers bring some sophisticated radiological image models that cannot be found within the Organisation. It is explained and presented to students for the purpose of keeping up with the scientific Academic Course in the field of oral and maxillofacial x-rays.

D.2 -

D.3 -

D.4-

| <b>11. course structure</b> |   |             |                               |                          |  |
|-----------------------------|---|-------------|-------------------------------|--------------------------|--|
| <b>Hours</b>                | <b>Theoretical content</b>                                | <b>Week</b> | <b>Academic Course name</b>   | <b>Teaching Method</b>   | <b>Assessment Method</b>                                 |
| 1                           | Fundamentals of radiology                                 | 1           | oral and maxillofacial x-rays | Lesson using Power Point | Short, quarterly, half-year and final exams and seminars |
| 1                           | Production & interaction of X-ray                         | 2           | oral and maxillofacial x-rays | Lesson using Power Point | Short, quarterly, half-year and final exams and seminars |
| 1                           | X-ray film & processing cycle                             | 3           | oral and maxillofacial x-rays | Lesson using Power Point | Short, quarterly, half-year and final exams and seminars |
| 1                           | Factors relating to the production of radiograph          | 4           | oral and maxillofacial x-rays | Lesson using Power Point | Short, quarterly, half-year and final exams and seminars |
| 1                           | Ideal radiographic projections & artifacts                | 5           | oral and maxillofacial x-rays | Lesson using Power Point | Short, quarterly, half-year and final exams and seminars |
| 1                           | Hazards of X-radiation & its biological effects           | 6           | oral and maxillofacial x-rays | Lesson using Power Point | Short, quarterly, half-year and final exams and seminars |
| 1                           | Protection from X- radiation in the clinic of radiography | 7           | oral and maxillofacial x-rays | Lesson using Power Point | Short, quarterly, half-year and final exams and seminars |
| 1                           | Intraoral techniques 1                                    | 8           | oral and maxillofacial x-rays | Lesson using Power Point | Short, quarterly, half-year and final exams and seminars |
| 1                           | Intraoral techniques 2                                    | 9           | oral and maxillofacial x-rays | Lesson using Power Point | Short, quarterly, half-year and final exams and seminars |
| 1                           | Darkroom  | 10          | oral and maxillofacial x-rays | Lesson using Power Point | Short, quarterly, half-year and final exams and seminars |
| 1                           | Patient's management                                      | 11          | oral and maxillofacial x-rays | Lesson using Power Point | Short, quarterly, half-year and final exams and seminars |
| 1                           | Localization techniques                                   | 12          | oral and maxillofacial x-rays | Lesson using Power Point | Short, quarterly, half-year and final exams and seminars |
| 1                           | Radiographic survey                                       | 13          | oral and maxillofacial x-rays | Lesson using Power Point | Short, quarterly, half-year and final exams and seminars |

| Hours | Theoretical content  | Week | Academic Course name          | Teaching Method          | Assessment Method  |
|-------|--|------|-------------------------------|--------------------------|--|
| 1     | Viewing techniques (conventional & digital)                                | 14   | oral and maxillofacial x-rays | Lesson using Power Point | Short, quarterly, half-year and final exams and seminars |
| 1     | Dental panoramic radiography (principals)                                  | 15   | oral and maxillofacial x-rays | Lesson using Power Point | Short, quarterly, half-year and final exams and seminars |
| 1     | Dental panoramic radiography (anatomy)                                     | 16   | oral and maxillofacial x-rays | Lesson using Power Point | Short, quarterly, half-year and final exams and seminars |
| 1     | Introduction for normal radiographic anatomy                               | 17   | oral and maxillofacial x-rays | Lesson using Power Point | Short, quarterly, half-year and final exams and seminars |
| 1     | Radiographic appearance of normal Intraoral landmarks                      | 18   | oral and maxillofacial x-rays | Lesson using Power Point | Short, quarterly, half-year and final exams and seminars |
| 1     | Radiographic appearance of common diseases of teeth & supporting structure | 19   | oral and maxillofacial x-rays | Lesson using Power Point | Short, quarterly, half-year and final exams and seminars |
| 1     | Extra oral radiography   | 20   | oral and maxillofacial x-rays | Lesson using Power Point | Short, quarterly, half-year and final exams and seminars |
| 1     | Digital imaging system   | 21   | oral and maxillofacial x-rays | Lesson using Power Point | Short, quarterly, half-year and final exams and seminars |
| 1     | Computed Tomography (theory & physics)                                     | 22   | oral and maxillofacial x-rays | Lesson using Power Point | Short, quarterly, half-year and final exams and seminars |
| 1     | Computed Tomography (clinical application in maxillofacial region).        | 23   | oral and maxillofacial x-rays | Lesson using Power Point | Short, quarterly, half-year and final exams and seminars |
| 1     | CBCT (theory & advantages over Conventional CT).                           | 24   | oral and maxillofacial x-rays | Lesson using Power Point | Short, quarterly, half-year and final exams and seminars |
| 1     | CBCT (clinical applications in Maxillofacial region).                      | 25   | oral and maxillofacial x-rays | Lesson using Power Point | Short, quarterly, half-year and final exams and seminars |
| 1     | TMJ Radiography (normal & pathological)                                    | 26   | oral and maxillofacial x-rays | Lesson using Power Point | Short, quarterly, half-year and final exams and seminars |
| 1     | TMJ Imaging  | 27   | oral and maxillofacial x-rays | Lesson using Power Point | Short, quarterly, half-year and final exams and seminars |

| Hours | Theoretical content         | Week | Academic Course name          | Teaching Method          | Assessment Method  |
|-------|-----------------------------|------|-------------------------------|--------------------------|--|
| 1     | MRI (theory & physics)      | 28   | oral and maxillofacial x-rays | Lesson using Power Point | Short, quarterly, half-year and final exams and seminars |
| 1     | MRI (clinical applications) | 29   | oral and maxillofacial x-rays | Lesson using Power Point | Short, quarterly, half-year and final exams and seminars |
| 1     | Radiography & Implant ology | 30   | oral and maxillofacial x-rays | Lesson using Power Point | Short, quarterly, half-year and final exams and seminars |

| 12. Infrastructure   |  |
|--|--|
| 1-Books required reading   | White and Pharoah's Oral radiology principles and interpretation. Sanjay Mallya and Ernest Lam. 8 th edition. 2019, Elsevier.  |
| 2-Main reference sources<br>r- - Recommended books and references (scientific journals, reports...). |  |
| b-Electronic references, Internet sites...   | The faculty website  |
| <b>13. The development of the curriculum plan</b>  | <p>1-Development of academic content by deletion, addition and replacement.</p> <p>2-Using modern methods of teaching appropriate to the level of learners from time to time.</p> <p>3-Updating the assessment methods and measuring the level of students.</p> <p>4- Encouraging e-learning.</p> <p>5-Providing the student with the skills required by the dental profession and the changes of the times.</p> |

### *Clinical requirements*

| No. | Title of the sessions  | Hours |
|-----|--|-------|
| 1   | "Fundamentals of radiology: Introduction, Similarity and differences between x-ray and visible light, component of x- ".ray machine  | 2     |
| 2   | Fundamentals of radiology: X-ray tube, Generation of x-ray, Selection of target material   | 2     |
| 3   | Production & interaction of X-ray: X-ray beam shape and position, Inverse square law, Rectification, Filtration, and Collimation. X-ray spectrum, half value layer, X-ray measuring units. | 2     |
| 4   | X-ray film & processing cycle X-ray films, intra-oral, chemical composition, film type and speed, extra-oral, screen and non screen, film properties, density, contrast, details.          | 2     |
| 5   | Ideal radiograph   | 2     |
| 6   | Intraoral techniques   | 2     |
| 7   | Hazards & protection   | 2     |
| 8   | Dental panoramic radiography   | 2     |

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|    |               |   |
|----|---------------|---|
| 9  | Clinical work | 2 |
| 10 | Clinical work | 2 |

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| No.   | Title of the sessions | Hours |
|-------|-----------------------|-------|
| 11    | Clinical work         | 2     |
| 12    | Clinical work         | 2     |
| 13    | Clinical work         | 2     |
| 14    | Clinical work         | 2     |
| 15    | Clinical work         | 2     |
| 16    | Clinical work         | 2     |
| 17    | Clinical work         | 2     |
| 18    | Clinical work         | 2     |
| 19    | Clinical work         | 2     |
| 20    | Clinical work         | 2     |
| 21    | Clinical work         | 2     |
| 22    | Clinical work         | 2     |
| 23    | Clinical work         | 2     |
| 24    | Clinical work         | 2     |
| 25    | Clinical work         | 2     |
| 26    | Clinical work         | 2     |
| 27    | Clinical work         | 2     |
| 28    | Clinical work         | 2     |
| 29    | Clinical work         | 2     |
| 30    | Clinical work         | 2     |
| Total |                       | 60    |

|   |  |
|---|--|
| <b>1. Educational Institution</b>   | Ministry of Higher Education and Scientific Research/<br>University of Baghdad |
| <b>2. University Department/Centre</b>  | College of Dentistry/ Oral Diagnosis   |
| <b>3. The name/code of the Academic Programme</b>   | 321PA General Pathology  |
| <b>4. Programmes included</b>   | Dentistry  |
| <b>5. Available Academic Courses</b>  | Lectures, seminars, workshops and summer trainings                             |
| <b>6. Academic Study System/Year</b>  | Yearly   |
| <b>7. Number of hours (total)</b>   | 30 theoretical hours and 60 practical hours                                    |
| <b>8. Preparation Date of this Description</b>  | 2021-2022-.  |
| <b>9. Objectives of the Academic Programme</b>  |  |
| To qualify dentists capable for identifying the important causes of different general pathologies, studying diagnosis of different pathologies and ways of using different pigments to know these pathologies and their causes. |  |

## 10. Programme outputs and teaching, learning and assessment methods

### **A. Cognitive Objectives (Knowledge and Understanding)**

- A.1 - Ability to differentiate among different pathologies
- A.2 - How to use pigment
- A.3 - Learning on tissue slicing
- A.4 -
- A.5 -
- A.6 -

### **B. Programme Skill Objectives**

- B.1 - Ability to differentiate among different pathologies
- B.2 - How to use pigments
- B.3 - Learning on tissue slicing
- B.4 -

### **Methods of Teaching and Learning**

Theoretical Lessons  
Scientific discussions and seminars using screens (LCD)  
Use of methods of clarification such as radiographs and videos

### **Assessment Methods**

Weekly exams  
Half-year and end-of-year exams  
Assessment of simians prepared by students  
Assessment of the practical product

### **C. Thinking Skills**

- C.1 - Identify pathologies and diagnose them microscopically using electron microscopy, dyes and tissue slicing.
- C.2 -
- C.3 -
- C.4 -

### **Methods of Teaching and Learning**

Theoretical lessons  
Scientific discussions and seminars  
Use of screens (LCD) on demonstration methods such as radiographs and videos

## **Assessment Methods**

Weekly exams  
Half-year and end-of-year exams  
Assessment of simians prepared by the students  
Assessment of the practical product

### **D. General and gained skills (other skills related to employability and personal development).**

D.1 – Lecturers bring some tissue and dyes to rare diseases that cannot be found within the institution and are explained and presented to the students for keeping up with the scientific Academic Course in the field of public pathologies.

D.2 -

D.3 -

D.4 -

| <b>11. Academic Course Structure</b> |  |              |                             |  |  |
|--------------------------------------|--|--------------|-----------------------------|--|--|
| <b>Week</b>                          | <b>Theoretical content</b>                 | <b>Hours</b> | <b>Academic Course name</b> | <b>Teaching Method</b>                 | <b>Assessment method</b>                                 |
| 1                                    | Introduction                               | 1            | Pathology                   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams and seminars |
| 2                                    | Cell damage                                | 3            | Pathology                   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams and seminars |
| 4                                    | Inflammation                               | 4            | Pathology                   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams and seminars |
| 5                                    | Healing and repair                         | 2            | Pathology                   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams and seminars |
| 6                                    | Deposits and pigmentation                  | 1            | Pathology                   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams and seminars |
| 7                                    | Infections                                 | 5            | Pathology                   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams and seminars |
| 8                                    | Immunopathology foggy                      | 4            | Pathology                   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams and seminars |
| 9                                    | Disorders of cell growth and development   | 3            | Pathology                   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams and seminars |
| 10                                   | Neoplasia                                  | 5            | Pathology                   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams and seminars |
| 11                                   | Genetics                                   | 4            | Pathology                   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams and seminars |
| 12                                   | Disturbances in body fluids and blood flow | 4            | Pathology                   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams and seminars |
| 13                                   | Diseases of the Cardiovascular system      | 4            | Pathology                   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams and seminars |

| Week | Theoretical content                          | Hours | Academic Course name | Teaching Method                        | Assessment Method  |
|------|--|-------|----------------------|--|--|
| 14   | Diseases of respiratory system               | 2     | Pathology            | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams and seminars |
| 15   | Haematological diseases                      | 6     | Pathology            | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams and seminars |
| 16   | Diseases of G.I.T                            | 4     | Pathology            | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams and seminars |
| 17   | Diseases of liver, pancreas and gall bladder | 3     | Pathology            | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams and seminars |
| 18   | Bone diseases                                | 2     | Pathology            | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams and seminars |
| 19   | Joints, Muscle and C.T. diseases             | 3     | Pathology            | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams and seminars |
| 60   |  | Total |                      |  |  |

| 12. Infrastructure   |   |
|--|---|
| 1-Books required reading   | Robbins basic pathology. Kumar, Abbas and Aster. 10th edition. 2018, Elsevier.  |
| 2-Main reference sources<br>s- - Recommended books and references (scientific journals, reports...). |   |
| b-Electronic references, Internet sites...   | The faculty website   |
| <b>13. The development of the curriculum plan</b>  | 1-Development of academic content by deletion, addition and replacement.<br>2-Using modern methods of teaching appropriate to the level of learners from time to time.<br>3-Updating the assessment methods and measuring the level of students.4- Encouraging e-learning.<br>5-Providing the student with the skills required by the dental profession and the changes of the times. |

| No. | Title of the sessions   | Hours |
|-----|---|-------|
| 1   | Introduction to general pathology   | 2     |
| 2   | Power points slides   | 2     |
| 3   | Power points and histopathological slides demonstrating fatty changes in liver and cloudy swelling in kidney    | 2     |
| 4   | Necrosis Power points and histopathological slides of coagulative in heart muscles and gaseous necrosis in lung | 2     |

| No.   | Title of the sessions  | Hours |
|-------|--|-------|
| 5     | Lung Power points and histopathological slides of anthracosis of and hemosiderosis in liver                                | 2     |
| 6     | Histopathological slides of amyloidosis in Power points and stain E. and congo-red & kidney, H                             | 2     |
| 7     | Histopathological slides of acute appendicitis Power points and (and lobar pneumonia (lung (appendix), acute osteomyelitis | 2     |
| 8     | Histopathological slides of chronic Power points and osteomyelitis in bone cholecystitis in gall bladder and chronic       | 2     |
| 9     | Power points and histopathological slides of keloid in skin and granulation tissue   | 2     |
| 10    | Power points and histopathological slides of TB in lung and Actinomycosis  | 2     |
| 11    | Power points and histopathological slides of Sarcoidosis   | 2     |
| 12    | Power points slides of CVC in lung and liver   | 2     |
| 13    | Power points slides of blood vessels thrombosis  | 2     |
| 14    | Power points and histopathological slides of lipoma, S.C papilloma of skin   | 2     |
| 15    | Power points and histopathological slides of ostomy of the Bone  | 2     |
| 16    | Power points and histopathological slides of S.C. carcinoma and adeno carcinoma of the colon                               | 2     |
| 17    | Power points and histopathological slides of thyrotoxicosis of thyroid and hashimotois thyroiditis in thyroid              | 2     |
| 18    | Data show slides   | 2     |
| 19    | Data show slides   | 2     |
| 20    | Power points and histopathological slides of myocardial infarction of heart and atherosclerosis in blood vessels           | 2     |
| 21    | Power points and histopathological slides of chronic gastritis in stomach and peptic ulcer                                 | 2     |
| 22    | Power points and histopathological slides of liver cirrhosis and hepatocellular carcinoma                                  | 2     |
| 23    | Power points and histopathological slides of emphysema in lung and chronic bronchitis in bronchus                          | 2     |
| 24    | Data show  | 2     |
| 25    | Data show  | 2     |
| 26    | Data show  | 2     |
| 27    | Data show  | 2     |
| 28    | Data show  | 2     |
| 29    | Power points slides  | 2     |
| 30    | Power points slides  | 2     |
| Total |  | 60    |

|   |   |
|---|---|
| <b>1. Educational Institution</b>                 | Ministry of Higher Education and Scientific Research          |
| <b>2. University Department/Centre</b>            | Branch of Oral, Maxillofacial and Dental Medicine and Surgery |
| <b>3. The name/code of the Academic Programme</b> | Oral Surgery/322OS  |
| <b>4. Programmes included</b>                     | Dentistry   |
| <b>5. Available Academic Courses</b>              | Theoretical and practical lectures                            |
| <b>6. Academic Study System /Year</b>             | Two semesters/Third stage                                     |
| <b>7. Number of hours (total)</b>                 | 30 theoretical hours and 60 practical hours                   |
| <b>8. Preparation Date of this Description</b>    | 2021-2022-.   |

**9. Aims of the Academic Programme:**

Students are prepared at a high level of scientific knowledge in relation to oral surgery and get familiarised with surgical instruments for their work in surgery in addition to gaining knowledge of the types of local anaesthesia, methods, problems and complications associated with it.

**10. Programme outputs and teaching, learning and assessment methods**

**A. Cognitive Objectives (Knowledge and Understanding)**

- A.1 - Acquiring basic knowledge of oral surgery.
- A.2 - Identifying surgical instruments used in oral surgery and surgical techniques
- A.3 – Learning basic knowledge of local anaesthesia and its methods.
- A.4 -
- A.5 -
- A.6 -

**B. Programme Skill Objectives**

- B.1 – Knowledge of the basics of oral diagnosis and surgical instruments
- B.2 - Dental and oral surgery techniques
- B.3 - Learn different local anaesthetics
- B.4 -

**Methods of Teaching and Learning**

Lessons using power point (data show) and practical laboratories.

**Assessment Methods**

Quarterly, half -year, final, short exams and practical exams

**C. Thinking Skills**

- C.1 -Dealing with oral surgery and local anaesthesia
- C.2 -
- C.3 -
- C.4 -

**Methods of Teaching and Learning**

Theoretical lessons and practical laboratory

**Assessment Methods**

Theoretical and practical examinations

**D. General and gained skills (other skills related to employability and personal development).**

- D.1 - Student preparation in practice related to oral surgery and local anaesthesia.
- D.2 -
- D.3 -
- D.4 -



| <b>11. Academic Course structure</b> |              |  |                             |  |   |
|--------------------------------------|--------------|--|-----------------------------|--|---|
| <b>Week</b>                          | <b>Hours</b> | <b>Theoretical content</b>   | <b>Academic Course name</b> | <b>Teaching Method</b>                 | <b>Assessment method</b>                    |
| 1                                    | 2            | Diagnosis in oral surgery (exodontia)  | Oral surgery                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 3                                    | 2            | Extraction of teeth (exodontia)  | Oral surgery                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 5                                    | 2            | Contra indications of extraction (exodontia)                                 | Oral surgery                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 7                                    | 1            | General arrangement for extraction (exodontia)                               | Oral surgery                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 8                                    | 2            | Dental forceps (exodontia)   | Oral surgery                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 10                                   | 2            | Elevators (exodontia)  | Oral surgery                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 12                                   | 2            | Techniques of forceps extraction and post-operative instructions (exodontia) | Oral surgery                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 14                                   | 3            | Complications of teeth extractions (exodontia)                               | Oral surgery                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 17                                   | 3            | Basic surgical instruments (exodontia)                                       | Oral surgery                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |

| Week | Hours | Theoretical content                                       | Academic Course name | Teaching Method                        | Assessment method                           |
|------|-------|---|----------------------|--|---|
| 20   | 1     | Introduction to local anaesthesia (local anaesthesia)     | Oral surgery         | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 21   | 2     | Pharmacology of local anaesthesia (local anaesthesia)     | Oral surgery         | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 23   | 1     | Surgical anatomy in local anaesthesia (local anaesthesia) | Oral surgery         | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 24   | 1     | Instruments of local anaesthesia (local anaesthesia)      | Oral surgery         | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 25   | 3     | Techniques of local anaesthesia (local anaesthesia)       | Oral surgery         | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 28   | 3     | Complications of local anaesthesia (local anaesthesia)    | Oral surgery         | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |

|  |   |
|--|---|
| <b>12. Infrastructure</b>  |   |
| 1-Books required reading   | Contemporary oral and maxillofacial surgery 5 <sup>th</sup> edition 2008.Extraction of teeth.   |
| 2-Main reference sources<br>t- - Recommended books and references (scientific journals, reports...). | Hand book of local anesthesia 7th edition Stanely F. Malamed , Elsevier.2019  |
| b-Electronic references, Internet sites...   | The faculty website   |
| <b>13. The development of the curriculum plan</b>  | 1-Development of academic content by deletion, addition and replacement.<br>2-Using modern methods of teaching appropriate to the level of learners from time to time.<br>3-Updating the assessment methods and measuring the level of students.4- Encouraging e-learning.<br>5-Providing the student with the skills required by the dental profession and the changes of the times. |

| <b>No.</b> | <b>Laboratory sessions &amp; Clinical requirements</b>          | <b>Hours</b> |
|------------|---|--------------|
| 1          | Introduction  | 2            |
| 2          | What is oral and maxillofacial surgery?                         | 2            |
| 3          | History and diagnosis (1).                                      | 2            |
| 4          | History and diagnosis (2).                                      | 2            |
| 5          | Case sheet and patient (1)                                      | 2            |
| 6          | Case sheet and patient (2)                                      | 2            |
| 7          | Examination.  | 2            |
| 8          | Surgical instruments part (1).                                  | 2            |
| 9          | Surgical instruments part (2).                                  | 2            |
| 10         | Surgical instruments part (3).                                  | 2            |
| 11         | Examination   | 2            |
| 12         | General arrangement for extraction.                             | 2            |
| 13         | Position of patient, operator, the use of chair (in the clinic) | 2            |
| 14         | Examination.  | 2            |
| 15         | Local anaesthesia (introduction)                                | 2            |
| 16         | Dental forceps (part 1).  | 2            |
| 17         | Dental forceps (part 2).  | 2            |
| 18         | Dental forceps (part 3).  | 2            |
| 19         | Dental elevator (part 1).                                       | 2            |
| 20         | Dental elevator (part 2).                                       | 2            |
| 21         | Dental elevator (part 3).                                       | 2            |
| 22         | Examination   | 2            |
| 23         | Local anaesthesia (surgical), (anatomy)                         | 2            |
| 24         | Local anaesthesia equipment.                                    | 2            |
| 25         | Local anaesthesia techniques (infiltration).                    | 2            |
| 26         | Local anaesthesia techniques (block).                           | 2            |
| 27         | Local anaesthesia techniques (discussion).                      | 2            |
| 28         | Complication of local anaesthesia                               | 2            |
| 29         | Complication of extraction.                                     | 2            |
| 30         | Examination   | 2            |
| Total      |   | 60           |

|  |   |
|--|---|
| <b>1. Educational Institution</b>  | Higher Education - College of Dentistry         |
| <b>2. University Department/Centre</b>   | College of Dentistry, Prosthesis                |
| <b>3. The name/code of the Academic Programme</b>  | 310PR   |
| <b>4. Programmes included</b>  | Prosthodontics                                  |
| <b>5. Available Academic Courses</b>   | Student attendance at lectures and laboratories |
| <b>6. Academic Study System /Year</b>  | Two semesters/ stage 3                          |
| <b>7. Number of hours (total)</b>  | 30 theoretical hours and 60 practical hours     |
| <b>8. Preparation Date of this Description</b>   | 2021-2022-.                                     |
| <b>9. Objectives of the Academic Programme</b>   |   |
| Teaching basic principles related to the manufacture of partial dentures, both acrylic and chrome cobalt |   |

|   |
|---|
| <b>10. Programme outputs and teaching, learning and assessment methods</b>  |
| <p><b>A. <u>Cognitive Objectives (Knowledge and Understanding)</u></b><br/> A.1 - Providing the students with the necessary information to make the students able to master all the steps of the micro dentures-making, especially, chrome cobalt related to the laboratory side</p>  |
| <p><b>B. <u>Programme Skill Objectives</u></b><br/> B1. describing the tools used to prepare enough materials<br/> B2. teaching students how to use and follow them up while working</p>  |
| <b><u>Methods of Teaching and Learning</u></b>  |
| <p>LCD lecture, data show, digital cameras, live explanation, direct student interaction with all types of materials listed in the curriculum presented to the student, after they are divided into groups on the number of days of the week and all the steps explain in details.</p> <p>In addition to bringing in models of denture of previous patients or denture specially prepared for illustrations</p> |

### **Assessment Methods**

Practical assessment of each step of the denture

Weekly and monthly examinations, annual and annual text

### **C. Thinking Skills**

C.1 - Ability to solve problems

C.2 – Ability to handle and adapt dental materials with complete skill to facilitate and master the laboratory of denture making and to respond to student questions

C.3 - Providing live and detailed explanation, and direct interaction

C.4 - In denture making lessons, students will face difficulties due to their interaction with the student dental materials that stimulate student creativity and talent in the denture making

C.5 - Providing work atmosphere and group instruction, which make the students in a sound psychological environment, which alert him to the potential mistakes they, or their mates may make.

### **Assessment Methods**

Theoretical examinations

Assessment of each step of the denture's work and assessment of the treatment plans as well as the designs the students have developed for various pathological conditions.

### **D. General and gained skills (other skills related to employability and personal development).**

D.1 -Encouraging and motivating students to participate in conferences both inside and outside the faculty and in external trainings.

| <b>11. Academic Course structure (Theoretical side)</b> |              |   |                             |  |   |
|---|--------------|---|-----------------------------|--|---|
| <b>Week</b>   | <b>Hours</b> | <b>Theoretical content</b>                    | <b>Academic Course name</b> | <b>Teaching Method</b>                 | <b>Assessment method</b>                                |
| 1   | 1            | Introduction to Removable Partial Dentures    | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 2   | 1            | Terminology & Definitions                     | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 3   | 1            | Classification of Partially Edentulous Arches | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 4   | 1            | Surveying                                     | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 5   | 1            | Component parts of Removable Partial Dentures | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 6   | 1            | Maxillary Major Connector                     | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 7   | 1            | Mandibular Major Connector                    | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |

| <b>Week</b> | <b>Hours</b> | <b>Theoretical content</b>                | <b>Academic Course name</b> | <b>Teaching Method</b>                 | <b>Assessment method</b>                                |
|-------------|--------------|---|-----------------------------|--|---|
| 8           | 1            | Minor Connector                           | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 9           | 1            | Rest and rest seat                        | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 10          | 1            | Direct Retainers,                         | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 11          | 1            | Extra Coronal Direct Retainers            | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 12          | 1            | Extra Coronal Direct Retainers (Continue) | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 13          | 1            | Internal Attachments                      | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 14          | 1            | Indirect retainers                        | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 15          | 1            | Indirect retainers (Continue)             | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 16          | 1            | Block out & Relief                        | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |

| <b>Week</b> | <b>Hours</b> | <b>Theoretical content</b>                            | <b>Academic Course name</b> | <b>Teaching Method</b>                 | <b>Assessment method</b>                                |
|-------------|--------------|---|-----------------------------|--|---|
| 17          | 1            | Duplication & Refractory Cast Construction            | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 18          | 1            | Wax Pattern   | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 19          | 1            | Casting, & Finishing                                  | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 20          | 1            | Denture Bases in Removable Partial Dentures           | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 21          | 1            | Stress Breaker  | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 22          | 1            | Biomechanics of Removable Partial Dentures            | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 23          | 1            | Biomechanics of Removable Partial Dentures (Continue) | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |



| <b>Week</b> | <b>Hours</b> | <b>Theoretical content</b>   | <b>Academic Course name</b> | <b>Teaching Method</b>                 | <b>Assessment method</b>                                |
|-------------|--------------|--|-----------------------------|--|---|
| 24          | 1            | Principles of Removable Partial Denture Design   | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 25          | 1            | Phases of Removable Partial Denture Treatment  | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 26          | 1            | Acrylic Removable Partial Dentures   | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 27          | 1            | Acrylic Removable Partial Dentures (Continue)  | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 28          | 1            | Jaw Relation in Removable Partial Dentures   | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 29          | 1            | Repairs and Additions to Removable Partial Dentures  | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 30          | 1            | Special Impression Techniques for Removable Partial Denture (altered cast techniques...etc.) | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |

| <b>Week</b> | <b>Hours</b> |   | <b>Academic Course name</b> | <b>Teaching Method</b> | <b>Assessment method</b>                                |
|-------------|--------------|---|-----------------------------|------------------------|---|
| 1           | 4            | Introduction to Removable Partial Dentures              | Prosthodontics              | Practical laboratories | Quarterly, half-year and final practical and oral exams |
| 2           | 4            | Kennedy Classification                                  | Prosthodontics              | Practical laboratories | Quarterly, half-year and final practical and oral exams |
| 3           | 4            | Cast Trimming   | Prosthodontics              | Practical laboratories | Quarterly, half-year and final practical and oral exams |
| 4           | 4            | Surveying   | Prosthodontics              | Practical laboratories | Quarterly, half-year and final practical and oral exams |
| 5           | 4            | Surveying   | Prosthodontics              | Practical laboratories | Quarterly, half-year and final practical and oral exams |
| 6           | 4            | Wire Bending  | Prosthodontics              | Practical laboratories | Quarterly, half-year and final practical and oral exams |
| 7           | 4            | Wire Bending  | Prosthodontics              | Practical laboratories | Quarterly, half-year and final practical and oral exams |
| 8           | 4            | Acrylic Removable Partial Denture Design                | Prosthodontics              | Practical laboratories | Quarterly, half-year and final practical and oral exams |
| 9           | 4            | Acrylic Removable Partial Denture Laboratory Procedures | Prosthodontics              | Practical laboratories | Quarterly, half-year and final practical and oral exams |
| 10          | 4            | Acrylic Removable Partial Denture Laboratory Procedures | Prosthodontics              | Practical laboratories | Quarterly, half-year and final practical and oral exams |

| <b>Week</b> | <b>Hours</b> |  | <b>Academic Course name</b> | <b>Teaching Method</b> | <b>Assessment method</b>                                |
|-------------|--------------|--|-----------------------------|------------------------|---|
| 11          | 4            | Flexible Partial Denture Design                                    | Prosthodontics              | Practical laboratories | Quarterly, half-year and final practical and oral exams |
| 12          | 4            | Flexible Partial Denture Laboratory Procedures                     | Prosthodontics              | Practical laboratories | Quarterly, half-year and final practical and oral exams |
| 13          | 4            | Flexible Partial Denture Laboratory Procedures                     | Prosthodontics              | Practical laboratories | Quarterly, half-year and final practical and oral exams |
| 14          | 4            | Flexible Partial Denture Laboratory Procedures                     | Prosthodontics              | Practical laboratories | Quarterly, half-year and final practical and oral exams |
| 15          | 4            | Principles of 2D Design for the Removable Partial Dentures         | Prosthodontics              | Practical laboratories | Quarterly, half-year and final practical and oral exams |
| 16          | 4            | Principles of 2D Design for the Removable Partial Dentures         | Prosthodontics              | Practical laboratories | Quarterly, half-year and final practical and oral exams |
| 17          | 4            | Principles of Drawing 2D Design for the Removable Partial Dentures | Prosthodontics              | Practical laboratories | Quarterly, half-year and final practical and oral exams |
| 18          | 4            | 2D Design for Mandibular & Maxillary Arches                        | Prosthodontics              | Practical laboratories | Quarterly, half-year and final practical and oral exams |
| 19          | 4            | 2D Design for Mandibular & Maxillary Arches                        | Prosthodontics              | Practical laboratories | Quarterly, half-year and final practical and oral exams |

| <b>Week</b> | <b>Hours</b> |   | <b>Academic Course name</b> | <b>Teaching Method</b> | <b>Assessment method</b>                                |
|-------------|--------------|---|-----------------------------|------------------------|---|
| 20          | 4            | 2D Design for Mandibular & Maxillary Arches             | Prosthodontics              | Practical laboratories | Quarterly, half-year and final practical and oral exams |
| 21          | 4            | Drawing Removable Partial Denture 3D Design & CAD/CAM   | Prosthodontics              | Practical laboratories | Quarterly, half-year and final practical and oral exams |
| 22          | 4            | Drawing Removable Partial Denture 3D Design & CAD/CAM   | Prosthodontics              | Practical laboratories | Quarterly, half-year and final practical and oral exams |
| 23          | 4            | Types of Rests  | Prosthodontics              | Practical laboratories | Quarterly, half-year and final practical and oral exams |
| 24          | 4            | Rest Seat Preparation                                   | Prosthodontics              | Practical laboratories | Quarterly, half-year and final practical and oral exams |
| 25          | 4            | Block Out and Relief                                    | Prosthodontics              | Practical laboratories | Quarterly, half-year and final practical and oral exams |
| 26          | 4            | Block Out and Relief                                    | Prosthodontics              | Practical laboratories | Quarterly, half-year and final practical and oral exams |
| 27          | 4            | Duplication of the Master Cast                          | Prosthodontics              | Practical laboratories | Quarterly, half-year and final practical and oral exams |
| 28          | 4            | Wax Pattern for the Removable Partial Denture Framework | Prosthodontics              | Practical laboratories | Quarterly, half-year and final practical and oral exams |
| 29          | 4            | Wax Pattern for the Removable Partial Denture Framework | Prosthodontics              | Practical laboratories | Quarterly, half-year and final practical and oral exams |

| Week | Hours |                       | Academic Course name | Teaching Method        | Assessment method                                       |
|------|-------|-----------------------|----------------------|------------------------|---|
| 30   | 4     | Framework Fabrication | Prosthodontics       | Practical laboratories | Quarterly, half-year and final practical and oral exams |

| <b>12. Infrastructure</b>  |   |
|--|---|
| 1-Books required reading   | Carr, A.B. Brown, D.T. (2011) McCracken's Removable Partial Prosthodontics.12th ed. St. Louis, Missouri: Mosby, Inc., Elsevier Inc. ▪ Robert, W. L. (2018) Removable Partial Denture Manual. Dalhousie University. ▪ Phoenix, D. R. Cagna, R. D. Charles, F. D. (2008) Stewart's Clinical Removable Partial Prosthodontics. 4th ed. Quintessence Publishing Co, Inc. ▪ GPT9 2017.     |
| 2-Main reference sources<br>u- - Recommended books and references (scientific journals, reports...). | Glossary of Prosthodontic Terms. J Prosth. Dent. ▪ Zoidis P, Papatthanasiou I, Polyzois G. The use of a modified poly-etherether- ketone (PEEK) as an alternative framework material for removable dental prostheses. A clinical report. J Prosthodont 2016;25:580-4.   |
| b-Electronic references, Internet sites...   | The faculty website   |
| <b>13. The development of the curriculum plan</b>  | 1-Development of academic content by deletion, addition and replacement.<br>2-Using modern methods of teaching appropriate to the level of learners from time to time.<br>3-Updating the assessment methods and measuring the level of students.4- Encouraging e-learning.<br>5-Providing the student with the skills required by the dental profession and the changes of the times. |

|   |  |
|---|--|
| <b>1. Educational Institution</b>   | Ministry of Higher Education and Scientific Research |
| <b>2. University Department/Centre</b>  | Branch of Oral, Maxillofacial and Dental Surgery     |
| <b>3. The name/code of the Academic Programme</b>   | General Medicine/ 423GM                              |
| <b>4. Programmes included</b>   | Dentistry  |
| <b>5. Available Academic Courses</b>  | Theoretical and practical lectures                   |
| <b>6. Academic Study System /Year</b>   | Two semesters/ Fourth Stage                          |
| <b>7. Number of hours (total)</b>   | 30 theoretical hours and 75 practical hours          |
| <b>8. Preparation Date of this Description</b>  | 2021-2022-.  |
| <b>9. Objectives of the Academic Programme:</b><br>to prepare students at a high level of scientific knowledge in relation to general medicine and learning of the treatment of diseases and their diagnosis, treatment and their relationship to their competence as dentists                  |  |
| <b>10. Programme outputs and teaching, learning and assessment methods</b>  |  |
| <p><b>A. <u>Cognitive Objectives (Knowledge and Understanding)</u></b></p> <p>A.1 - Gaining knowledge of human diseases<br/> A.2 - Ways to diagnosing diseases and treating them<br/> A.3 - The relationship of diseases to their competence as a dentist.<br/> A.4 -<br/> A.5 -<br/> A.6 -</p> |  |
| <p><b>B. <u>Programme Skill Objectives</u></b></p> <p>B.1 - Special diagnostic methods<br/> B.2 - Knowledge of laboratory types of pathology.<br/> B.3 -<br/> B.4 -</p>   |  |
|   |  |

**Methods of Teaching and Learning**

Lessons using Power Point (data show) and clinical tours in the Department of Internal Medicine

**Assessment Methods**

Quarterly, half-year, final and short exams.

**C. Thinking Skills**

- C.1 - Solve problems in dealing with pathology.
- C.2 -
- C.3 -
- C.4 -

**Methods of Teaching and Learning**

Theoretical lectures and clinical tours

**Assessment Methods**

Quiz quarterly, half-year and final exams

**D. General and gained skills (other skills related to employability and personal development).**

- D.1 - Student preparation in practice in dealing with general medicine and its relationship with their work as a dentist.
- D.2 -
- D.3 -
- D.4 -

| <b>11. Academic Course Structure</b> |              |                              |                             |  |   |
|--------------------------------------|--------------|------------------------------|-----------------------------|--|---|
| <b>Week</b>                          | <b>Hours</b> | <b>Theoretical content</b>   | <b>Academic Course name</b> | <b>Teaching Method</b>                 | <b>Assessment method</b>                    |
| 1                                    | 1            | Systemic hypertension        | General Medicine            | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 2                                    | 2            | Ischemic heart disease       | General Medicine            | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 4                                    | 1            | Hematemesis                  | General Medicine            | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 5                                    | 1            | Rheumatic fever              | General Medicine            | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 6                                    | 2            | Infective endocarditis       | General Medicine            | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 8                                    | 2            | Diseases of the heart valves | General Medicine            | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 10                                   | 2            | Haemorrhagic diseases        | General Medicine            | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 12                                   | 2            | Anaemias                     | General Medicine            | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 14                                   | 1            | Haemolytic anaemia           | General Medicine            | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |



| <b>Week</b> | <b>Hours</b> | <b>Theoretical content</b>           | <b>Academic Course name</b> | <b>Teaching Method</b>                 | <b>Assessment method</b>                    |
|-------------|--------------|--------------------------------------|-----------------------------|--|---|
| 14          | 1            | Haemolytic anaemia                   | General Medicine            | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 15          | 1            | Erythrocytosis and polycythaemia     | General Medicine            | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 16          | 1            | Leukaemia                            | General Medicine            | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 17          | 1            | Esophagitis                          | General Medicine            | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 18          | 1            | Acute abdomen                        | General Medicine            | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 19          | 1            | Diabetes mellitus                    | General Medicine            | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 20          | 1            | Tuberculosis                         | General Medicine            | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 21          | 1            | Symptoms of elementary tract disease | General Medicine            | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 22          | 1            | Branchial asthma                     | General Medicine            | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 23          | 2            | Peptic ulcer                         | General Medicine            | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 25          | 2            | Jaundice                             | General Medicine            | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |

| Week | Hours | Theoretical content                             | Academic Course name | Teaching Method                        | Assessment method                           |
|------|-------|---|----------------------|--|---|
| 27   | 1     | Diarrhoea and constipation                      | General Medicine     | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 28   | 1     | Upper GIT bleeding and hepatic disorders causes | General Medicine     | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 29   | 2     | Congestive heart failure                        | General Medicine     | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |

| 12. Infrastructure   |  |
|--|--|
| 1-Books required reading   | <ol style="list-style-type: none"> <li>Davidson's principles and practice of medicine 21<sup>st</sup> edition 2010.</li> <li>Oxford handbook of clinical medicine 8<sup>th</sup> edition 2010.</li> <li>Dental management of medically compromised patients 7<sup>th</sup> edition 2007.</li> <li>Medical problems in dentistry 6<sup>th</sup> edition 2010.</li> <li>Dental Management of the Medically Compromised Patient, Ninth Edition, 2018</li> </ol> |
| 2-Main reference sources<br>v- - Recommended books and references (scientific journals, reports...). |  |
| b-Electronic references, Internet sites...   | The faculty website  |
| <b>13. The development of the curriculum plan</b>  | <ol style="list-style-type: none"> <li>Development of academic content by deletion, addition and replacement.</li> <li>Using modern methods of teaching appropriate to the level of learners from time to time.</li> <li>Updating the assessment methods and measuring the level of students.</li> <li>Encouraging e-learning.</li> <li>Providing the student with the skills required by the dental profession and the changes of the times.</li> </ol>     |

### *Clinical sessions*

| No. | Title of the sessions   | Hours |
|-----|---|-------|
| 1   | History, Clinical and communication skills.                   | 2.5   |
| 2   | Principals of physical examination.                           | 2.5   |
| 3   | The analysis of symptoms and signs.                           | 2.5   |
| 4   | The general examination and the external features of disease. | 2.5   |
| 5   | Examination of the head.                                      | 2.5   |
| 6   | Examination of the neck.                                      | 2.5   |
| 7   | Examination of the hands.                                     | 2.5   |
| 8   | Examination of the skin.                                      | 2.5   |

| No.   | Title of the sessions  | Hours |
|-------|--|-------|
| 9     | Cardiovascular system; presenting symptoms.  | 2.5   |
| 10    | Cardiovascular system physical examination.  | 2.5   |
| 11    | Examination of the heart.  | 2.5   |
| 12    | Examination of the arteries and veins.   | 2.5   |
| 13    | Introduction to ECG  | 2.5   |
| 14    | Acute rheumatic fever and rheumatic heart disease presenting features.                 | 2.5   |
| 15    | Infective endocarditis presenting features.  | 2.5   |
| 16    | The cardinal symptoms of respiratory disease.  | 2.5   |
| 17    | Physical examination of the respiratory system   | 2.5   |
| 18    | Physical examination of the respiratory system   | 2.5   |
| 19    | Presenting features in renal and urinary tract disease.                                | 2.5   |
| 20    | Clinical examination of kidneys and urinary tract.                                     | 2.5   |
| 21    | Presenting features of thyroid disease, and clinical examination of the thyroid gland. | 2.5   |
| 22    | Presenting problems in adrenal gland disease and clinical examination of patients.     | 2.5   |
| 23    | Presenting symptoms in diabetes mellitus and clinical examination of patients.         | 2.5   |
| 24    | Physical examination of the abdomen and groins   | 2.5   |
| 25    | Presenting features in liver disease and clinical examination                          | 2.5   |
| 26    | Presenting problems in blood disease and clinical examination                          | 2.5   |
| 27    | Presenting problems in blood disease and clinical examination                          | 2.5   |
| 28    | Use of the ophthalmoscope  | 2.5   |
| 29    | Presenting problems in neurological disease  | 2.5   |
| 30    | Clinical examination of the nervous system   | 2.5   |
| Total |  | 75    |

|   |  |
|---|--|
| <b>1. Educational Institution</b>                 | Ministry of higher Education and Scientific Research |
| <b>2. University Department/Centre</b>            | Branch of Oral, Maxillofacial and Dental Surgery     |
| <b>3. The name/code of the Academic Programme</b> | General Surgery/GS 424                               |
| <b>4. Programmes included</b>                     | Dentistry  |
| <b>5. Available Academic Courses</b>              | Theoretical and practical lectures                   |
| <b>6. Academic Study System/Year</b>              | Two semesters/fourth stage                           |
| <b>7. Number of hours (total)</b>                 | 30 theoretical hours and 75 practical hours          |

|   |             |
|---|-------------|
| <b>8. Preparation Date of this Description</b>  | 2021-2022-. |
| <b>9. Objectives of the Academic Course:</b><br>To prepare students for having a high level of scientific knowledge of general surgery and on general surgical conditions and methods of diagnosis, treatment and its relationship to their specialty as a dentist. |             |
| <b>10. Programme outputs and teaching, learning and assessment methods</b>  |             |
| <b>A. <u>Cognitive Objectives (Knowledge and Understanding)</u></b><br>A.1 -Gain knowledge of general surgical conditions<br>A.2 -Ways to diagnose and treat them<br>A.3 - Relationship to their competence as a dentist  |             |
| <b>B. <u>Programme Skill Objectives</u></b><br>B.1 - Special diagnostic methods<br>B.2 - Know the types of laboratory and radiological tests related to surgical arteries<br>B.3 -<br>B.4 -   |             |
| <b><u>Methods of Teaching and Learning</u></b>  |             |
| Lessons using Power point (Data show) and clinical tours in General Surgery Departments   |             |
| <b><u>Assessment Methods</u></b>  |             |
| Quarterly, half-year, final and short exams   |             |
| <b>C. <u>Thinking Skills</u></b><br>C1 - Solving problems in dealing with general surgical cases.<br>C2 -<br>C3 -<br>C4 -   |             |

### **Methods of Teaching and Learning**

Theoretical Lectures  
Scientific discussions and seminars  
Use of screens (LCD) use demonstration methods such as radiographs and videos

### **Assessment Methods**

Quarterly and half-year exams, final exams and short exams

### **D General and gained skills (other skills related to employability and personal development).**

D.1 - Preparing the students in practice and developing the ability to identify surgical cases that interfere with their work.

D.2 –

D.3 –

D.4 –

## 11. Academic Course Structure

| Week | Hours | Theoretical content               | Academic Course name | Teaching Method                        | Assessment method                           |
|------|-------|-----------------------------------|----------------------|--|---|
| 1    | 1     | Case history                      | General Surgery      | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 2    | 1     | Clinical examination              | General Surgery      | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 3    | 2     | Surgical wound and infections     | General Surgery      | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 5    | 2     | Wound healing                     | General Surgery      | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 7    | 2     | Haemorrhage and blood transfusion | General Surgery      | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 9    | 2     | Fracture and dislocation of bones | General Surgery      | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 11   | 1     | Head injuries                     | General Surgery      | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 12   | 2     | Parenteral feeding                | General Surgery      | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 14   | 2     | Fluid and electrolytes balance    | General Surgery      | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |

| Week | Hours | Theoretical content   | Academic Course name | Teaching Method                        | Assessment method                           |
|------|-------|---|----------------------|--|---|
| 16   | 2     | Surgical resuscitation and medical emergencies              | General Surgery      | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 18   | 2     | Differential diagnosis of swelling in the neck              | General Surgery      | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 20   | 2     | Diseases of the nose and Para nasal sinuses                 | General Surgery      | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 22   | 2     | Diseases of pharynx and larynx and esophagus                | General Surgery      | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 24   | 2     | General anaesthesia, pain management and postoperative care | General Surgery      | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 26   | 2     | Chest trauma and diseases                                   | General Surgery      | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 28   | 2     | Thyroid gland and goiter                                    | General Surgery      | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 29   | 1     | Tumours, Cyst, Ulcer & fistula                              | General Surgery      | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |

| 12. Infrastructure   |  |
|--|--|
| 1-Books required reading   | Baily and Love's short practice of surgery 27th .edition 2018.           |
| 2-Main reference sources<br>w- - Recommended books and references (scientific journals, reports...). | Schwarz principles of surgery.   |
| b-Electronic references, Internet sites...   | The faculty website  |
| <b>13. The development of the curriculum plan</b>  | 1-Development of academic content by deletion, addition and replacement. |

2-Using modern methods of teaching appropriate to the level of learners from time to time.  
 3-Updating the assessment methods and measuring the level of students.4- Encouraging e-learning.  
 5-Providing the student with the skills required by the dental profession and the changes of the times.

*Clinical session*

| No.   | Title of the sessions   | Hours |
|-------|---|-------|
| 1     | History taking.   | 2.5   |
| 2     | History taking  | 2.5   |
| 3     | How to fill case sheet.                                       | 2.5   |
| 4     | General Examination   | 2.5   |
| 5     | Pulse rate measurement  | 2.5   |
| 6     | Blood pressure measurement                                    | 2.5   |
| 7     | Body temperature  | 2.5   |
| 8     | Respiratory rate measurement and oximetry (oxygen saturation) | 2.5   |
| 9     | Head & Neck examination                                       | 2.5   |
| 10    | Cranial nerve examination                                     | 2.5   |
| 11    | Abdominal examination   | 2.5   |
| 12    | Abdominal examination   | 2.5   |
| 13    | pelvic examination.   | 2.5   |
| 14    | pelvic examination  | 2.5   |
| 15    | Upper limb examination  | 2.5   |
| 16    | Lower limb examination  | 2.5   |
| 17    | Central nervous system & Peripheral nervous system.           | 2.5   |
| 18    | Intramuscular Intravenous injections                          | 2.5   |
| 19    | Types of fluids   | 2.5   |
| 20    | Types of solutions  | 2.5   |
| 21    | Examination of the cardiovascular system                      | 2.5   |
| 22    | X-Rays  | 2.5   |
| 23    | U\S   | 2.5   |
| 24    | MRI   | 2.5   |
| 25    | Specific laboratory examination                               | 2.5   |
| 26    | Laboratory examination.                                       | 2.5   |
| 27    | CT scan   | 2.5   |
| 28    | Types of drains   | 2.5   |
| 29    | Manifestation of endocrine disease                            | 2.5   |
| 30    | Manifestation of endocrine disease                            | 2.5   |
| Total |   | 75    |



|   |  |
|---|--|
| <b>1. Educational Institution</b>                 | Ministry of Higher Education and Scientific Research |
| <b>2. University Department/Centre</b>            | Branch of Oral, Maxillofacial and Dental Surgery     |
| <b>3. The name/code of the Academic Programme</b> | Oral surgery/422OS                                   |
| <b>4. Programmes included</b>                     | Dentistry  |
| <b>5. Available Academic Courses</b>              | Theoretical and practical lectures                   |
| <b>6. Academic Study System/Year</b>              | Two semesters/fourth stage                           |
| <b>7. Number of hours (total)</b>                 | 30 theoretical hours 150 practical hours             |
| <b>8. Preparation Date of this Description</b>    | 2021-2022-.  |

**9. Objectives of the Academic Programme:**  
 Preparing students for having a high level of scientific knowledge in relation to oral surgery and identifying steps of care for those who patients with chronic and communicable diseases, as well as minor surgical interventions for mouth inflammation and oral, maxillofacial and dental surgery.

**10. Programme outputs and teaching, learning and assessment methods**

**A. Cognitive Objectives (Knowledge and Understanding)**  
 A.1 - Acquire basic knowledge of oral surgery.  
 A.2 - Age-specific measures for chronic and communicable diseases  
 A.3 - Basic knowledge of microsurgical interventions  
 A.4 – Dealing with oral, maxillofacial and dental infections.  
 A.5 -  
 A.6 -

**B. Programme Skill Objectives**  
 B.1 - Knowledge of the basics of oral diagnosis  
 B.2 - Treatment of chronic and communicable diseases  
 B.3 - Dental extraction trainings  
 B.4 -

**Methods of Teaching and Learning**

Lessons using Power point, (data show)  
 Dental extraction clinics  
 seminars preparation by students under the supervision of their lecturers.

**Assessment Methods**

Quarterly, half-year, final and short exams and practical exams

**C. Thinking Skills**

C.1 -Dealing with oral surgery, dental extraction and complications related to them

C.2 -

C.3 -

C.4 -

**Methods of Teaching and Learning**

Theoretical lectures, dental extraction and seminars.

**Assessment Methods**

Theoretical and practical examinations

**D. General and gained skills (other skills related to employability and personal development).**

D.1 - Student preparation in practice related to oral surgery, local anaesthesia and dental extraction.

D.2 -

D.3 -

D.4 -

| <b>11. Academic Course structure</b> |              |                            |                             |  |   |
|--------------------------------------|--------------|----------------------------|-----------------------------|--|---|
| <b>Week</b>                          | <b>Hours</b> | <b>Theoretical content</b> | <b>Academic Course name</b> | <b>Teaching Method</b>                 | <b>Assessment method</b>                    |
| 1                                    | 1            | Dental pain                | Oral surgery                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 2                                    | 3            | Cardiovascular diseases    | Oral surgery                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 5                                    | 2            | Bleeding disorders         | Oral surgery                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 7                                    | 1            | Blood dyscrasias           | Oral surgery                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 8                                    | 1            | Thyroid disease            | Oral surgery                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 9                                    | 1            | Adrenal insufficiency      | Oral surgery                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 10                                   | 1            | Diabetes mellitus          | Oral surgery                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 11                                   | 1            | Pulmonary diseases         | Oral surgery                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 12                                   | 1            | Arthritis                  | Oral surgery                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |

| <b>Week</b> | <b>Hours</b> | <b>Theoretical content</b>                                    | <b>Academic Course name</b> | <b>Teaching Method</b>                 | <b>Assessment method</b>                    |
|-------------|--------------|---|-----------------------------|--|---|
| 13          | 1            | Allergy   | Oral surgery                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 14          | 1            | Renal disease   | Oral surgery                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 15          | 1            | Liver disease   | Oral surgery                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 16          | 1            | C.N.S. disease  | Oral surgery                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 17          | 1            | Pregnancy   | Oral surgery                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 18          | 1            | AIDS.   | Oral surgery                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 19          | 1            | Management of patient receiving chemotherapy and radiotherapy | Oral surgery                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 21          | 2            | Intra oral incisions, flaps and suturing                      | Oral surgery                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 22          | 2            | Principles of management of impacted teeth                    | Oral surgery                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 24          | 3            | Pyogenic infections of the soft tissues                       | Oral surgery                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |

| Week | Hours | Theoretical content              | Academic Course name | Teaching Method                        | Assessment method                           |
|------|-------|----------------------------------|----------------------|--|---|
| 27   | 2     | Inflammatory disease of the bone | Oral surgery         | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 29   | 2     | Complications of exodontia       | Oral surgery         | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |

| 12. Infrastructure   |  |
|--|--|
| 1-Books required reading   | <ul style="list-style-type: none"> <li>- Contemporary oral and maxillofacial surgery 7th edition 2019 (Elsevier).</li> <li>- An outline of oral surgery 2000.</li> <li>- Dental management of medically compromised patient's 7<sup>th</sup> edition 2007.</li> <li>- Medical problems in dentistry 6<sup>th</sup> edition 2010</li> <li>- Little and Falace's Dental Management of the Medically Compromised Patient 9th Edition , 2018.</li> </ul> |
| 2-Main reference sources<br>x- - Recommended books and references (scientific journals, reports...). |  |
| b-Electronic references, Internet sites...   | The faculty website  |
| <b>13. The development of the curriculum plan</b>  | 1-Development of academic content by deletion, addition and replacement.<br>2-Using modern methods of teaching appropriate to the level of learners from time to time.<br>3-Updating the assessment methods and measuring the level of students.<br>4- Encouraging e-learning.<br>5-Providing the student with the skills required by the dental profession and the changes of the times.  |

*Clinical requirement*

| Clinical requirement   |  |
|--|--|
| <ul style="list-style-type: none"> <li>- Extraction of simple cases</li> <li>- Seminars of oral surgery</li> </ul> | <ul style="list-style-type: none"> <li>- 5 Hours/ week</li> <li>- 150 Hours/ Year</li> </ul> |

|   |  |
|---|--|
| <b>1. Educational Institution</b>   | Higher Education - College of Dentistry      |
| <b>2. University Department/Centre</b>  | College of Dentistry                         |
| <b>3. The name/code of the Academic Programme</b>   | Conservative Dentistry 419CV                 |
| <b>4. Programmes included</b>   | Dental (Dentistry)                           |
| <b>5. Available Academic Courses</b>  | 100%   |
| <b>6. Academic Study System/Year</b>  | Two semesters/fourth stage                   |
| <b>7. Number of hours (total)</b>   | 30 theoretical hours and 150 practical hours |
| <b>8. Preparation Date of this Description</b>  | 2021-2022-.                                  |
| <b>9. Aims of the Academic Programme</b>  |  |
| <p>Student are trained on screening patients and diagnose the condition with modern diagnostic methods adopted, preparing the treatment plan, start the treatment using modern materials and methods to root canal treatment by giving theoretical lesson with working in the clinics.</p> <p>Students are also trained in root canal treatment on extracted teeth to prepare them for clinical work on patients.</p> |  |
| <b>10. Programme outputs and teaching, learning and assessment methods</b>  |  |
| <p><b>A. <u>Cognitive Objectives (Knowledge and Understanding)</u></b></p> <p>A.1 - Train the student on how to examine and diagnose pathological conditions</p> <p>A.2 - Provide important information and treatment steps</p> <p>A.3 - Give guidance and follow up on the processes of the root canal treatment.</p> <p>A.4 -</p> <p>A.5 -</p> <p>A.6 -</p>   |  |
| <p><b>B. <u>Programme Skill Objectives</u></b></p> <p>B.1 - Describing the tools used to prepare for root canal treatment and fillings.</p> <p>B.2 - Teaching the students how to use the tools and following them up while working</p>   |  |
| <b><u>Methods of Teaching and Learning</u></b>  |  |
| Data show, lecture, LCD, educational movies and transverse cameras  |  |

### **Assessment methods**

Theoretical, practical (clinical) and quiz exams

### **C. Thinking Skills**

C.1 - Ability to solve problems

C.2 – Ability to leadership

C.3 -

C.4 -

### **Methods of Teaching and Learning**

Theoretical and practical lectures (stimulus and response)

### **Assessment Methods**

Examinations

### **D. General and gained skills (other skills related to employability and personal development.)**

D.1 - Student preparation in practice related to conservative dentistry of crowns, bridges and root canal.

D.2 -

D.3 -

D.4 -

## 11. Academic Course structure

| Week | Hours | Theoretical content  | Academic Course name   | Teaching Method                        | Assessment method                           |
|------|-------|--|------------------------|--|---|
| 1    | 1     | Biologic Considerations of Enamel structure and its Clinical Significance in Practice of Operative Dentistry. (part 1)                       | Conservative Dentistry | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 2    | 1     | Objectives of endodontic treatment <ul style="list-style-type: none"> <li>- Basic phases of treatment</li> <li>- Pulp pathologies</li> </ul> | Conservative Dentistry | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 3    | 1     | Biologic Considerations of Enamel structure and its Clinical Significance in Practice of Operative Dentistry (part2)                         | Conservative Dentistry | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 4    | 1     | Classification of periapical diseases  | Conservative Dentistry | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 5    | 1     | Biologic Considerations of Dentin structure & its Clinical Significance in Operative Dentistry (part 1)                                      | Conservative Dentistry | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 6    | 1     | Access opening preparation   | Conservative Dentistry | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 7    | 1     | Biologic Considerations of Dentin structure & its Clinical Significance in Operative Dentistry (part 2)                                      | Conservative Dentistry | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 8    | 1     | Endodontic instruments   | Conservative Dentistry | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 9    | 1     | Dentin Bonding, Current strategies for Adhesion of Resin to Dentin. Expanded Clinical Indications for Dentin Adhesives                       | Conservative Dentistry | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |



| Week | Hours | Theoretical content   | Academic Course name   | Teaching Method                        | Assessment method                           |
|------|-------|---|------------------------|--|---|
| 10   | 1     | Roentgenography in endodontics and root canal preparation   | Conservative Dentistry | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 11   | 1     | Patient Evaluation, Diagnosis & Treatment Planning (part 1)   | Conservative Dentistry | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 12   | 1     | The rubber dam and its applications   | Conservative Dentistry | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 13   | 1     | Patient Evaluation, Diagnosis & Treatment Planning (part2)  | Conservative Dentistry | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 14   | 1     | Techniques in root canal preparation<br>1. Conventional technique<br>2. Step back technique<br>3. Crown down technique<br>Errors in root canal preparation              | Conservative Dentistry | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 15   | 1     | Caries Management (Diagnosis & treatment strategies)<br>The treatment goal in caries  | Conservative Dentistry | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 16   | 1     | Obscuration of root canals<br>Lateral condensation  | Conservative Dentistry | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 17   | 1     | Caries Management (Diagnosis & treatment strategies)<br>Pit & fissure lesions<br>Lesions involving proximal surfaces.<br>Lesions in smooth free surfaces<br>Root caries | Conservative Dentistry | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |

| Week | Hours | Theoretical content  | Academic Course name   | Teaching Method                        | Assessment method                                       |
|------|-------|--|------------------------|--|---|
| 18   | 1     | Biological consideration of enamel and dentin, its practical significant in operative dentistry  | Conservative Dentistry | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams             |
| 19   | 1     | Caries Management (Diagnosis & treatment strategies)<br>New Detection Devices.<br>Treatment of the Lesion or Cavity: <ul style="list-style-type: none"> <li>- Causal, non-invasive, or preventive treatment</li> <li>- Symptomatic (invasive or restorative) treatment.</li> </ul> New technologies for caries removal & cavity preparation. | Conservative Dentistry | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams             |
| 20   | 1     | Cervical Lesion<br>Non-carious cervical lesions( Erosion, Abrasion, Abreaction)  | Conservative Dentistry | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams             |
| 21   | 1     | Restorative Dentistry and Pulpal Health  | Conservative Dentistry | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams             |
| 22   | 1     | Inflammatory Conditions of the Pulp  | Conservative Dentistry | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams             |
| 23   | 1     | Treatment of Deep-Seated Caries (part 1)   | Conservative Dentistry | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams             |
| 24   | 1     | Treatment of Deep-Seated Caries (part 2)   | Conservative Dentistry | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams             |
| 25   | 1     | Fluoride–Releasing Matera  | Conservative Dentistry | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 26   | 1     | Laser<br>Definition. Laser apparatus. Properties of laser light. <ul style="list-style-type: none"> <li>- Mechanisms of laser tissue interactions.</li> </ul> Types of lasers in dentistry.  | Conservative Dentistry | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams             |

| Week | Hours | Theoretical content   | Academic Course name   | Teaching Method                        | Assessment method                           |
|------|-------|---|------------------------|--|---|
| 27   | 1     | Application of Laser in Restorative Dentistry.  | Conservative Dentistry | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 28   | 1     | Direct tooth-coloured restorations (Composite) Direct Composite Veneers Advantages of posterior composite restorations. Disadvantages of direct posterior composite restorations.             | Conservative Dentistry | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 29   | 1     | Indirect tooth-coloured restorations (Inlay and only posterior composite restorations) Advantages of indirect posterior composite restorations  | Conservative Dentistry | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 30   | 1     | Techniques of posterior composite Inlay/Only restoration system Laboratory-processed composite inlays and onlays. Ceramic veneers, inlays and onlays, clinical procedures. CAD/CAM techniques | Conservative Dentistry | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |

### Clinical requirements

| Operative Dentistry  | Hours    |
|--|----------|
| <p>The students are required to complete the following restorations:</p> <ul style="list-style-type: none"> <li>a. Amalgam Restoration <ul style="list-style-type: none"> <li>Class I 6 cases, Class II 4 cases.</li> </ul> </li> <li>b. Composite (tooth coloured) Restorations <ul style="list-style-type: none"> <li>Class III 2, Class IV 2, and Class V 2cases</li> </ul> </li> </ul> <p>These requirements are the absolute minimum needed in order to take the final examination.</p> | 2.5h/wk. |
|  | 75h/year |

### Clinical requirements (Preclinical Endodontic)

| No.   | Title of the sessions  | Hours |
|-------|--|-------|
| 1     | Introduction   | 2.5   |
| 2     | Block construction   | 2.5   |
| 3     | Diagnosis  | 2.5   |
| 4     | Quiz 1 in lab 1,2&3 +Access opening  | 2.5   |
| 5     | Quiz 2 in lab 4 +Clinical access opening to one anterior tooth and two premolar teeth        | 2.5   |
| 6     |  | 2.5   |
| 7     |  | 2.5   |
| 8     | Instrument   | 2.5   |
| 9     | Equipment and materials  | 2.5   |
| 10    | Quiz 3 clinical quiz in lab 8&9, Working length estimation demonstration.                    | 2.5   |
| 11    | Quiz 4 in lab 11 + clinical working length estimation on the same three teeth.               | 2.5   |
| 12    |  | 2.5   |
| 13    |  | 2.5   |
| 14    |  | 2.5   |
| 15    | Rubber dam application   | 2.5   |
| 16    | Quiz 5 clinical quiz in lab 15   | 2.5   |
| 17    | Review   | 2.5   |
| 18    | Root canal instrumentation.<br>Quiz 6 in lab 18 + clinical instrumentation to the same teeth | 2.5   |
| 19    |  | 2.5   |
| 20    |  | 2.5   |
| 21    |  | 2.5   |
| 22    |  | 2.5   |
| 23    |  | 2.5   |
| 24    | Root canal obscuration.  | 2.5   |
| 25    | Quiz 7 in lab 24 +clinical obscuration to three teeth.                                       | 2.5   |
| 26    |  | 2.5   |
| 27    |  | 2.5   |
| 28    | Review   | 2.5   |
| 29    |  | 2.5   |
| 30    |  | 2.5   |
| Total |  | 60    |

### 12. Infrastructure

1-Books required reading

2-Main reference sources

- Endodontics, Ingle.
  - Art & Science of operative dentistry.
  - Pathways of the pulp by Seltzer.
  - Handbook of Endodontics by Bunce.
- Summitt's Fundamentals of Operative Dentistry  
Textbook of Endodontics(Nisha Gart, Amit Gart).

|  |  |
|--|--|
| y- - Recommended books and references (scientific journals, reports...). |  |
| b-Electronic references, Internet sites...                               | The faculty website  |
| <b>13. The development of the curriculum plan</b>                        | <p>1-Development of academic content by deletion, addition and replacement.</p> <p>2-Using modern methods of teaching appropriate to the level of learners from time to time.</p> <p>3-Updating the assessment methods and measuring the level of students.</p> <p>4- Encouraging e-learning.</p> <p>5-Providing the student with the skills required by the dental profession and the changes of the times.</p> |

|  |  |
|--|--|
| <b>1. Educational Institution</b>  | Ministry of Higher Education and Scientific Research/<br>University of Baghdad |
| <b>2. University Department/Centre</b>   | College of Dentistry/ Oral Diagnosis   |
| <b>3. The name/code of the Academic Programme</b>  | Oral Pathology / 425OP   |
| <b>4. Programmes included</b>  | Dentistry  |
| <b>5. Available Academic Courses</b>   | Lectures, seminars, workshops and summer trainings                             |
| <b>6. Academic Study System/Year</b>   | Two semesters/fourth stage   |
| <b>7. Number of hours (total)</b>  | 60 theoretical hours 150/ practical hours                                      |
| <b>8. Preparation Date of this Description</b>   | 2021-2022-.  |
| <b>9. Objectives of the Academic Programme</b>   |  |
| To qualify dentists who can identify the causes of various oral pathology, study diagnosis and methods of dental pigments to know the distinction between diseases through laboratory diagnosis. |  |

|   |
|---|
| <b>10. Programme outputs and teaching, learning and assessment methods</b>  |
| <p><b>A. Cognitive Objectives (Knowledge and Understanding)</b> A.1<br/> - Ability to differentiate between different mouth diseases A.2<br/> - How to use pigment<br/> A.3 - Learn tissue slicing<br/> A.4 -<br/> A.5 -<br/> A.6 -</p> |

**B. Programme Skill Objectives**

- B.1 – Ability to differentiate between different mouth diseases
- B.2 - How to use pigments
- B.3 - Learn tissue slicing
- B.
- B.4 -

**Methods of Teaching and Learning**

Theoretical Lessons  
Scientific discussions and seminars  
Using LCD screens  
Using methods of clarification such as microscope and video

**Assessment Methods**

Weekly exams  
Half-year and end-of-year exams

**C. Thinking Skills**

- C.1 - Identifying diseases, micro diagnostics, dyes and tissue slicing
- C.2 -
- C.3 -
- C.4 -

**Methods of Teaching and Learning**

Theoretical Lessons  
Scientific discussions and seminars  
Using LCD screens  
Using methods of clarification such as microscope and video

**Assessment Methods**

Weekly exams  
Half-year and end-of-year exams

**D - General and gained skills (other skills related to employability and personal development.)**

D.1 - Lecturers will bring some tissue slices and dyes to rare diseases that cannot be found within the institution and explained and presented to students for the purpose of keeping up with the scientific Academic Course in the field of oral pathology

D.2 -

D.3 -

D.4 -



| <b>11. Academic Course structure</b> |              |   |                             |                          |  |
|--------------------------------------|--------------|---|-----------------------------|--------------------------|--|
| <b>Week</b>                          | <b>Hours</b> | <b>Theoretical content</b>  | <b>Academic Course name</b> | <b>Teaching Method</b>   | <b>Assessment method</b>                       |
| 1                                    | 1            | Introduction  | Oral Pathology              | Lesson using Power Point | Short, quarterly, half-year exams and seminars |
| 1                                    | 1            | Principles of biopsy Techniques   | Oral Pathology              | Lesson using Power Point | Short, quarterly, half-year exams and seminars |
| 2                                    | 2            | Dental caries   | Oral Pathology              | Lesson using Power Point | Short, quarterly, half-year exams and seminars |
| 3                                    | 2            | Pulp pathology  | Oral Pathology              | Lesson using Power Point | Short, quarterly, half-year exams and seminars |
| 4                                    | 2            | Periapical pathology  | Oral Pathology              | Lesson using Power Point | Short, quarterly, half-year exams and seminars |
| 5                                    | 2            | Bone infection  | Oral Pathology              | Lesson using Power Point | Short, quarterly, half-year exams and seminars |
| 6<br>7                               | 4            | Bone diseases (Genetic diseases, metabolic diseases; fibro-osseous lesions) | Oral Pathology              | Lesson using Power Point | Short, quarterly, half-year exams and seminars |
| 8<br>9                               | 4            | Developmental disturbances  | Oral Pathology              | Lesson using Power Point | Short, quarterly, half-year exams and seminars |
| 11<br>11<br>12                       | 6            | Bone neoplasms  | Oral Pathology              | Lesson using Power Point | Short, quarterly, half-year exams and seminars |
| 13                                   | 3            | Cysts of the jaw  | Oral Pathology              | Lesson using Power Point | Short, quarterly, half-year exams and seminars |
| 14                                   | 3            | Odontogenic tumours   | Oral Pathology              | Lesson using Power Point | Short, quarterly, half-year exams and seminars |
| 15<br>16                             | 4            | Oral mucosal lesions  | Oral Pathology              | Lesson using Power Point | Short, quarterly, half-year exams and seminars |
| 17                                   | 2            | White lesions   | Oral Pathology              | Lesson using Power Point | Short, quarterly, half-year exams and seminars |
| 18                                   | 2            | Vesicular- bulbous lesions, Vesicular-ulcerative Lesions                    | Oral Pathology              | Lesson using Power Point | Short, quarterly, half-year exams and seminars |

| Week     | Hours | Theoretical content         | Academic Course name | Teaching Method          | Assessment method                              |
|----------|-------|-----------------------------|----------------------|--------------------------|--|
| 19<br>21 | 4     | Oral malignancies           | Oral Pathology       | Lesson using Power Point | Short, quarterly, half-year exams and seminars |
| 21       | 2     | Diseases of salivary glands | Oral Pathology       | Lesson using Power Point | Short, quarterly, half-year exams and seminars |
| 22       | 2     | Tumours of salivary glands  | Oral Pathology       | Lesson using Power Point | Short, quarterly, half-year exams and seminars |
| 23       | 2     | Red lesions                 | Oral Pathology       | Lesson using Power Point | Short, quarterly, half-year exams and seminars |
| 24<br>25 | 5     | Connective tissue lesions   | Oral Pathology       | Lesson using Power Point | Short, quarterly, half-year exams and seminars |
| 26       | 2     | Pigmented lesions           | Oral Pathology       | Lesson using Power Point | Short, quarterly, half-year exams and seminars |
| 27<br>28 | 3     | Forensic odontology         | Oral Pathology       | Lesson using Power Point | Short, quarterly, half-year exams and seminars |
| 29       | 2     | T.M.J pathology             | Oral Pathology       | Lesson using Power Point | Short, quarterly, half-year exams and seminars |
| 30       | 2     | Osseo integration           | Oral Pathology       | Lesson using Power Point | Short, quarterly, half-year exams and seminars |

| <b>12. Infrastructure</b>  |  |
|--|--|
| 1-Books required reading   | Oral and maxillofacial pathology Neville 4th edition<br>Oral and maxillofacial pathology. Brad Neville, Douglas Damm Carl Allen and Jerry Bouquot. 4 th edition. 2016, Elsevier.   |
| 2-Main reference sources<br>z- - Recommended books and references (scientific journals, reports...). |  |
| b-Electronic references, Internet sites...   |  |
|  | The faculty website  |
| <b>13. The development of the curriculum plan</b>  | 1-Development of academic content by deletion, addition and replacement.<br>2-Using modern methods of teaching appropriate to the level of learners from time to time.<br>3-Updating the assessment methods and measuring the level of students.4- Encouraging e-learning. |

5-Providing the student with the skills required by the dental profession and the changes of the times.

| No.   | Title of the sessions  | Hours |
|-------|--|-------|
| 1     | show and demonstration of biopsy processing Data                                 | 3     |
| 2     | Acute and chronic dental caries  | 3     |
| 3     | Acute pulpitis, chronic pulpitis and pulp polyp                                  | 3     |
| 4     | Periapical granuloma, cyst and abscess   | 3     |
| No.   | Title of the sessions  | Hours |
| 5     | Acute and chronic osteomyelitis and sequestrum                                   | 2     |
| 6     | Fibroma Paget's disease, GCG, Fibrous dysplasia and ossifying                    | 2     |
| 7     | Fibroma Paget's disease, GCG, Fibrous dysplasia and ossifying                    | 2     |
| 8     | Ostomy, osteosarcoma, chondrosarcoma, Burkitt's lymphoma, eosinophilia granuloma | 2     |
| 9     | Ostomy, osteosarcoma, chondrosarcoma, Burkitt's lymphoma, eosinophilia granuloma | 2     |
| 10    | Data show  | 2     |
| 11    | Data show  | 2     |
| 12    | Calcifying odontogenic cyst and, Dentigerous cyst, keratocyst cyst eruption      | 2     |
| 13    | Ameloblastoma, adenomatoid odontogenic tumour and odontometer                    | 2     |
| 14    | Leukoplakia, Lichen planus   | 2     |
| 15    | Data show  | 2     |
| 16    | Data show  | 2     |
| 17    | Data show  | 2     |
| 18    | Data show  | 2     |
| 19    | Pemphigus vulgaris and data show   | 2     |
| 20    | Pemphigus vulgaris and data show   | 2     |
| 21    | Cell Epithelial dysplasia, squamous cell papilloma, squamous carcinoma           | 2     |
| 22    | Cell Epithelial dysplasia, squamous cell papilloma, squamous carcinoma           | 2     |
| 23    | Fibroma, hemangioma and lymphangia   | 2     |
| 24    | Fibroma, hemangioma, pyogenic granuloma and lymphangia                           | 2     |
| 25    | Musicale and data show   | 2     |
| 26    | Data show  | 2     |
| 27    | Pleomorphic adenoma and mucoepidermoid carcinoma                                 | 2     |
| 28    | Pleomorphic adenoma and mucoepidermoid carcinoma                                 | 2     |
| 29    | Data show  | 2     |
| 30    | Data show  | 2     |
| Total |  | 60    |

|   |  |
|---|--|
| <b>1. Educational Institution</b>                 | Ministry of Higher Education and Scientific Research |
| <b>2. University Department/Centre</b>            | Orthodontic Branch                                   |
| <b>3. The name/code of the Academic Programme</b> | Orthodontics OD/ 426                                 |
| <b>4. Programmes included</b>                     | Dentistry  |
| <b>5. Available Academic Courses</b>              | Theoretical lectures and a practical lab             |

|   |  |
|---|--|
| <b>6. Academic Study System/Year</b>  | Two semesters/fourth stage                   |
| <b>7. Number of hours (total)</b>   | 30 theoretical hours and 150 practical hours |
| <b>8. Preparation Date of this Description</b>  | 2021-2022-.                                  |
| <b>9. Objectives of the Academic Programme:</b><br>Preparing students for having a high level of scientific knowledge in relation to dental assessment and identifying types of periodontal conditions of patients and their causes, and types of orthodontic appliances and tools. |  |

|  |
|--|
| <b>10. Programme outputs and teaching, learning and assessment methods</b>   |
| <p><b>A. <u>Cognitive Objectives (Knowledge and Understanding)</u></b><br/> A.1 - Gaining knowledge of the causes of poor bite<br/> A.2 - Ways to diagnose and treat them<br/> A.3 - Identifying the types of orthodontic appliances<br/> A.4 -the goals of orthodontic treatment<br/> A.5 -knowing the classification of malocclusion<br/> A.6 -knowing the open and deep bite.</p> |
| <p><b>B. <u>Programme Skill Objectives</u></b><br/> B.1 - Learn how to make movable orthodontic appliances with its different parts<br/> B.2 -<br/> B.3 -<br/> B.4 -</p>   |
| <b><u>Methods of Teaching and Learning</u></b>   |
| Lectures using PowerPoint (data show)<br>Laboratory trainings on making movable orthodontic device   |
| <b><u>Assessment Methods</u></b>   |
| Short, quarterly, half-year and final exams  |

**C. Thinking Skills**

- C.1 - Solving problems of poor bite.
- C.2 -diagnosis of malocclusion
- C.3 -treat the problem of malocclusion
- C.4 -

**Methods of Teaching and Learning**

Theoretical lectures and practical laboratories

**Assessment methods**

Short, quarterly, half-year and final exams

**D. General and gained skills (other skills related to employability and personal development).**

- D.1 –Practical preparation of students for using the movable orthodontic device.
- D.2 -
- D.3 -
- D.4 -

## 11. Academic Course structure

| week | hours | Academic course name | Theoretical contents  | Teaching method                               | Assessment method                                  |
|------|-------|----------------------|---|---|--|
| ١    | ١     | orthodontics         | <p>Introduction</p> <p>Definition of orthodontics</p> <p>Definition of occlusion, normal occlusion, ideal occlusion and malocclusion</p> <p>Six keys of normal occlusion</p>  | <p>A theoretical lesson using Power Point</p> | <p>Short, quarterly, half-year and final exams</p> |
| ٢    | ١     | orthodontics         | <p>Aims of orthodontic treatment</p> <p>Orthodontic definitions (overjet, overbite, crossbite, spacing, crowding, midline deviation, rotation, displacement, proclination, retroclination, protrusion, retrusion, imbrication, overlap, impaction) – including types</p> <p>Types of cross bites (Buccal and lingual cross bites)</p> | <p>A theoretical lesson using Power Point</p> | <p>Short, quarterly, half-year and final exams</p> |
| ٣    | ١     | orthodontics         | <p>Classification of malocclusion</p> <p>a. Angle's classification including division and subdivisions</p> <p>b. molar, canine, incisor classifications</p> <p>c. classification of deciduous and mixed dentitions</p>  | <p>A theoretical lesson using Power Point</p> | <p>Short, quarterly, half-year and final exams</p> |
| ٤    | 1     | orthodontics         | <p>Growth and development</p> <p>Definitions of growth, development and maturity</p>  | <p>A theoretical lesson using</p>             | <p>Short, quarterly, half-year and</p>             |

|   |   |              |   |  |   |
|---|---|--------------|---|--|---|
|   |   |              | Stages of development (ovum till birth)   | Power Point                            | final exams                                 |
| o | 1 | orthodontics | Theories of bone growth (cartiligenous, sutural, endosteal-periosteal, matrix theories)   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 6 | 1 | orthodontics | Definitions of growth site, growth center, displacement, and drift<br><br>Growth curve and maximum growth spurt   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 7 |   | orthodontics | Growth and development of hard tissues (cranial base, cranial vault, nasomaxillary complex, mandible) including prenatal and postnatal<br><br>Growth and development of soft tissues (lip, nose, cheek and tongue) including prenatal and postnatal<br><br>Developmental anomalies (cleft lip and palate-causes, classification)<br><br>Jaw rotation. | A theoretical lesson using             | Short, quarterly, half-year and final exams |
| 8 | 1 | orthodontics | Principles of Genetics:<br><br>Genetic factors and inherited factors, Its role on cranio-facial abnormalities.<br><br>Basic Information and Definitions   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |



|    |   |              |   |   |  |
|----|---|--------------|---|---|--|
|    |   |              | <p>Heritability of Malocclusion</p> <p>Mode of Transmission of Malocclusion</p> <p>Dental and Skeletal Characteristics that are Inherited</p> <p>Malocclusion associated with genetic syndromes</p> <p>Butler's Field Theory</p> <p>Local occlusal variables</p> <p>Clinical Implications of Genetics in Orthodontics</p>                               |   |  |
| 9  | 1 | orthodontics | <p>Development of occlusion</p> <p>a. new born oral cavity (relationship of gum pads, neonatal jaw relationships, natal and neonatal teeth)</p> <p>b. Deciduous dentition stage - Dental changes till 6 years of age (jaw relationship, attrition, primary spaces)</p> <p>Normal Signs of Primary Dentition</p> <p>types of primary dentitions seen</p> | <p>A theoretical lesson using Power Point</p> | <p>Short, quarterly, half-year and final exams</p> |
| 10 | 1 | orthodontics | <p>c. Early mixed dentition stage - eruption of first molars and incisors (occlusal relationships of primary and permanent molars, early mesial shift, ugly duckling stage, secondary spaces)</p> <p>Exchange of Incisors</p>   | <p>A theoretical lesson using Power Point</p> | <p>Short, quarterly, half-year and final exams</p> |

|    |   |              |  |   |  |
|----|---|--------------|--|---|--|
|    |   |              | <p>Change in inclination of permanent incisors</p> <p>d. Late mixed dentition stage - eruption of canines and premolars (Leeway space and late mesial shift)</p> <p>Mixed dentition problems</p> <p>e. Permanent dentition - eruption second and third molars (mesial migration)</p> <p>Features of the permanent dentition</p> <p>Abnormalities of eruption and exfoliation</p> <p>Causes of delayed eruption</p> <p><b>DISTURBANCES DURING ERUPTION OF TEETH</b></p> |   |  |
| 11 | 1 | orthodontics | <p>Deciduous and permanent dentition</p> <p>Stages of tooth development: Formation, calcification and root completion</p> <p>Stages of Tooth Bud Development</p> <p>Tooth eruption (stages and theories)</p> <p>Sequences and timing of eruption</p> <p>Factors Determining Tooth Position During Eruption</p> <p>Developmental Disturbances Affecting The Teeth</p> <p><b>Disturbances During Eruption of Teeth</b></p>   | <p>A theoretical lesson using Power Point</p> | <p>Short, quarterly, half-year and final exams</p> |

|    |   |              |   |   |  |
|----|---|--------------|---|---|--|
| ١٢ | ١ | orthodontics | <p>Tooth movement</p> <p>a. Tissue changes associated with tooth movement:</p> <p>i. Histology of periodontium</p> <p>II. Periodontal and Bone Response to Normal Function</p> <p>III. Periodontal and Bone Response to Orthodontic Forces</p> <p>IV. Theories of tooth movement (pressure tension theory, blood flow theory, and piezoelectric theory)</p> | <p>A theoretical lesson using Power Point</p> | <p>Short, quarterly, half-year and final exams</p> |
| ١٣ | ١ | orthodontics | <p>b. Biomechanics</p> <p>1. Phases of Tooth Movement</p> <p>2. Force (application, type, magnitude, duration and direction)</p> <p>3. Center of resistance and rotation, moment of force and moment of couple.</p> <p>4.Types of Tooth Movements</p> <p>5. Rate of Tooth Movement</p>  | <p>A theoretical lesson using Power Point</p> | <p>Short, quarterly, half-year and final exams</p> |
| ١٤ | ١ | orthodontics | <p>1. Types of tooth movement</p> <p>2. Rate of tooth movement and factors affecting it</p> <p>3. Accelerated Tooth Movement</p>  | <p>A theoretical lesson using Power Point</p> | <p>Short, quarterly, half-year and final exams</p> |

|    |   |              |  |   |  |
|----|---|--------------|--|---|--|
| ١٥ | ١ | orthodontics | <p>Etiology of malocclusion:<br/> Classification of etiological factors</p> <p>a. General factors</p> <p>i. Skeletal (dental base and cranial base, variation of position and size of the jaws)</p>  | <p>A theoretical lesson using Power Point</p> | <p>Short, quarterly, half-year and final exams</p> |
| ١٦ | ١ | orthodontics | <p>ii. Soft tissue (muscles of face and mastication, muscles of lip and tongue, relation to skeletal factors, abnormalities of orofacial musculature, interference with soft tissue function)</p> <p>iii. Tooth size and arch length relationship (Crowding and spacing) including types</p> |   |  |
| ١٧ | ١ | orthodontics | <p>b. Local factors:</p> <p>i. Extra-teeth (supernumerary) and missing teeth (hypodontia)</p> <p>ii. Anomalies of tooth size and shape</p>   | <p>A theoretical lesson using Power Point</p> | <p>Short, quarterly, half-year and final exams</p> |
| ١٨ | ١ | orthodontics | <p>iii. Early loss of deciduous teeth</p> <p>iv. Retained deciduous teeth, delayed eruption of permanent teeth, impacted teeth, ankylosis</p>  | <p>A theoretical lesson using Power Point</p> | <p>Short, quarterly, half-year and final exams</p> |
| ١٩ | ١ | orthodontics | <p>v. Abnormal eruptive behavior (displacement, transposition)</p>   | <p>A theoretical lesson using</p>             | <p>Short, quarterly, half-year and</p>             |

|    |   |              |   |  |   |
|----|---|--------------|---|--|---|
|    |   |              | vi. Large frenum (labial and lingual), periodontal diseases   | Power Point                            | final exams                                 |
| ٢٠ | ١ | orthodontics | vii. Oral habits<br>viii. Dental caries, improper dental restoration  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٢١ | ١ | orthodontics | Orthodontic appliances<br>a. Overview:<br>i. passive orthodontic appliances (habit breaker, retainer and space maintainer)<br>ii. active orthodontic appliances (removable, fixed, orthopedic and myofunctional, and combination) | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٢٢ | 1 | orthodontics | b. Removable Orthodontic Appliance:<br>i. Properties of various components (SS wire, acrylic)<br>ii. Components:<br>1) active components (springs, screws and elastics)   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٢٣ | 1 | orthodontics | 2) retentive components (clasps)<br>3) acrylic base plate and bite planes<br>4) anchorage   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |

|    |   |              |   |  |   |
|----|---|--------------|---|--|---|
| ٢٤ | 1 | orthodontics | iii. Design of a removable orthodontic appliance<br><br>iv. Construction of a removable orthodontic appliance   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٢٥ | 1 | orthodontics | v. Soldering and welding<br><br>vi. Post-insertion instructions and guidelines  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٢٦ | 1 | orthodontics | c. Fixed orthodontic appliance:<br><br>Types, components, advantages, limitation, biomechanics, banding vs. bonding and lingual fixed appliance                                   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٢٧ | 1 | orthodontics | Anchorage: definition, indications, and types [extra-oral anchorage, temporary anchorage devices (TADs)]  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٢٨ | 1 | orthodontics | d. Orthopedic and Myofunctional appliance:<br><br>Types, components, advantages, limitation, mode of action<br><br>e. Other active appliances: combination appliances, Invisalign | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٢٩ | 1 | orthodontics | f. Retention and retainers<br><br>Retention (definition, reason, time)  | A theoretical                          | Short, quarterly, half-year and             |

|    |   |              |   |  |   |
|----|---|--------------|---|--|---|
|    |   |              | Retainers (Hawley, clear overlay, positioners, permanent fixation, precision)                             | lesson using Power Point               | final exams                                 |
| ۳۰ | 1 | orthodontics | iatrogenic effect of tooth movement:<br>)Pain, Mobility, Pulp effect, Root resorption, White spot lesions | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |

| <b>12. Infrastructure</b>   |   |
|---|---|
| 1-Books required reading  | -Orthodontics; current principles and technique -Introduction to orthodontic<br>-Contemporary Orthodontics, William R. Proffit Sixth edition<br>-Textbook of Orthodontics Singh 2007  |
| 2-Main reference sources<br>aa- - Recommended books and references (scientific journals, reports...). |   |
| b-Electronic references, Internet sites...  | The faculty website   |
| <b>13. The development of the curriculum plan</b>   | 1-Development of academic content by deletion, addition and replacement.<br>2-Using modern methods of teaching appropriate to the level of learners from time to time.<br>3-Updating the assessment methods and measuring the level of students.4- Encouraging e-learning.<br>5-Providing the student with the skills required by the dental profession and the changes of the times. |



*Clinical requirements*

| <b>No.</b> | <b>Title of the sessions</b>   | <b>Hours</b> |
|------------|--|--------------|
| 1          | Seminar 1 (Introduction to orthodontics)   | 5            |
| 2          | Seminar 2 (Types of orthodontic appliances)  | 5            |
| 3          | Seminar 3 (Orthodontic pliers)   | 5            |
| 4          | Seminar 4 (Stainless steel alloy properties)   | 5            |
| 5          | Seminar 5 (Acrylic baseplate)  | 5            |
| 6          | Seminar 6 (Principles of wire bending)   | 5            |
| 7          | Wire bending training  | 5            |
| 8          | Z-Spring   | 5            |
| 9          | Recurved Z-Spring  | 5            |
| 10         | Review   | 5            |
| 11         | Simple Finger Spring   | 5            |
| 12         | Modified Finger Spring   | 5            |
| 13         | Review   | 5            |
| 14         | Buccal Canine Retractor  | 5            |
| 15         | Modified Buccal Canine Retractor   | 5            |
| 16         | Review   | 5            |
| 17         | Quarterly Exam   | 5            |
| 18         | Adams' Clasps on Upper Right 1 <sup>st</sup> Molar                                   | 5            |
| 19         | Adams' Clasps on Upper Left 1 <sup>st</sup> Molar                                    | 5            |
| 20         | Adams' Clasps on Upper Right 1 <sup>st</sup> Premolar                                | 5            |
| 21         | Double Adams' Clasps on Upper Right 2 <sup>nd</sup> premolar & 1 <sup>st</sup> molar | 5            |
| 22         | Review   | 5            |

| No.   | Title of the sessions | Hours |
|-------|-----------------------|-------|
| 23    | Fitted Labial Arch    | 5     |
| 24    | Hawley Arch           | 5     |
| 25    | Review                | 5     |
| 26    | Robert's Retractor    | 5     |
| 27    | Soldering and Welding | 5     |
| 28    | Review                | 5     |
| 29    | Quarterly Exam        | 5     |
| 30    | Final Exam            | 5     |
| Total |                       | 150   |

|   |  |
|---|--|
| <b>1. Educational Institution</b>   | Higher Education - College of Dentistry        |
| <b>2. University Department/Centre</b>  | Branch of Pedodontics and Preventive Dentistry |
| <b>3. The name/code of the Academic Programme</b>   | Pedodontics /427PE                             |
| <b>4. Programmes included</b>   | Dentistry                                      |
| <b>5. Available Academic Courses</b>  | Theoretical lectures                           |
| <b>6. Academic Study System /Year</b>   | Two semesters/fourth stage                     |
| <b>7. Number of hours (total)</b>   | 30 theoretical hours                           |
| <b>8. Preparation Date of this Description</b>  | 2021-2022-.                                    |
| <b>9. Aims of the Academic Programme</b>  |  |
| understand the theoretical and practical ways to treat all cases of children teeth and to learn about scientific methods and methods supported by means of illustration to learn how to identify the brown and permanent teeth and the problems associated with them. |  |

## **10. Programme outputs and teaching, learning and assessment methods**

### **A. Cognitive Objectives (Knowledge and Understanding)**

- A.1 - Drafting information to enable students to understand them
- A.2 - Increasing knowledge regarding the diagnosis and treatment of various pedodontics dentistry in children
- A.3 - Caring for mouth and teeth, and promoting awareness of the importance of maintaining the deciduous teeth until the permanent teeth are formed in children.

### **B. Programme Skill Objectives**

- B.1 - Training students in pathological conditions of teeth of children
- B.2 - Giving instructions on how to deal with children conditions
- B.3 – Acquiring skills to diagnose the deciduous and permanent teeth of children

### **Methods of Teaching and Learning**

- 1. Data Show
- 2. Educational Movies
- 3. LCD
- 4. Transverse cameras

### **Assessment Methods**

- 1. Attendance
- 2. Daily, short and quiz exams
- 3. Quarterly exams
- 4. Semester exam
- 5. Final Exam
- 6. Making questions and discussions during lectures

### **C. Thinking Skills**

- C.1 - Student ability to solve problems and have distinctive thinking
- C.2 -Ability to lead student groups
- C.3 -Assessing student achievements

### **Methods of Teaching and Learning**

Following up the student thinking, expression and responsiveness methods

### **Assessment Methods**

- 1. depending on the student attendance and commitment to the lectures and their interaction with the lecturers
- 2. taking the short exams to assess student understanding of the subject presented and explained in the lecture
- 3. taking planned exams as the quarterly, half and final exams.

**D. General and gained skills (other skills related to employability and personal development).**

D.1 -Professional preparation

D.2 - Scientific preparation

D.3 -Cultural preparation

D.4 -Employing skills gained so that the student becomes a dentist capable of treating patients

| 11. Academic Course structure |       |   |                      |  |   |
|-------------------------------|-------|---|----------------------|--|---|
| Week                          | Hours | Theoretical content   | Academic Course name | Teaching Method                        | Assessment method                           |
| 1                             | 1     | Eruption of teeth, normal eruption process                              | Pedodontics          | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 2                             | 1     | Teething and difficult eruption   | Pedodontics          | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 3                             | 1     | Eruption haematoma, sequestrum, ectopic eruption                        | Pedodontics          | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 4                             | 1     | Natal and neonatal teeth  | Pedodontics          | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 5                             | 1     | Local factors influence eruption  | Pedodontics          | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 6                             | 1     | Systemic factors influence eruption                                     | Pedodontics          | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 7                             | 1     | Morphology of the primary teeth   | Pedodontics          | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 8                             | 1     | Normal morphology of all primary teeth and their clinical consideration | Pedodontics          | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 9                             | 1     | Morphologic differences between primary and permanent                   | Pedodontics          | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
|                               |       | Teeth   |                      |  |   |
| 10                            | 1     | Functions of primary teeth  | Pedodontics          | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 11                            | 1     | Dental caries.<br>Definition and Classification                         | Pedodontics          | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |

| <b>Week</b> | <b>Hours</b> | <b>Theoretical content</b>   | <b>Academic Course name</b> | <b>Teaching Method</b>                 | <b>Assessment method</b>                    |
|-------------|--------------|--|-----------------------------|--|---|
| 12          | 1            | Etiology of dental caries  | Pedodontics                 | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 13          | 1            | Early childhood caries,  | Pedodontics                 | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 14          | 1            | Nursing caries, baby bottle tooth decay  | Pedodontics                 | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 15          | 1            | Severe childhood caries  | Pedodontics                 | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 16          | 1            | Rampant dental caries  | Pedodontics                 | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 17          | 1            | Restorative dentistry for children   | Pedodontics                 | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 18          | 1            | solation & maintenance of dry field and application of the rubber Dam  | Pedodontics                 | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 19          | 1            | Morphological consideration, cavity preparation and instrumentation  | Pedodontics                 | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 20          | 1            | Cavity preparation on primary teeth, restorative materials used on paediatric dentistry, Matrices& retainers | Pedodontics                 | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 21          | 1            | Chrome steel crowns  | Pedodontics                 | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 22          | 1            | Atraumatic Restorative Therapy (ART)   | Pedodontics                 | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |

| Week | Hours | Theoretical content                                       | Academic Course name | Teaching Method                        | Assessment method                           |
|------|-------|---|----------------------|--|---|
| 23   | 1     | Treatment of deep caries                                  | Pedodontics          | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 24   | 1     | Diagnosis aids in the selection of teeth for pulp therapy | Pedodontics          | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 25   | 1     | Indirect pulp treatment                                   | Pedodontics          | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 26   | 1     | Vital pulp therapy  | Pedodontics          | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 27   | 1     | pulpotomy   | Pedodontics          | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 28   | 1     | Non vital pulp therapy technique                          | Pedodontics          | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 29   | 1     | Reaction of pulp to various capping material              | Pedodontics          | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 30   | 1     | Failure after vital pulp therapy                          | Pedodontics          | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |

| 12. Infrastructure  |  |
|---|--|
| 1-Books required reading  | McDONALD AND AVERY'S DENTISTRY for CHILD and ADOLESCENT 2016 by Elsevier<br>Pediatric Dentistry Damile 3rd ed. 2009<br>Text book of pediatric dentistry Nikhil Marwa 2nd ed. 2009 New Delh<br>Hand book of pediatric dentistry (Cameron) mosby/third edition/2008<br>Principles and practice of pedodontics /Arathi Rao Jaypee/second edition2008<br>Paediatric Dentistry/ Richard Welbury/ Fourth edition Oxford University Press, 2012 |
| 2-Main reference sources<br>bb- - Recommended books and references (scientific journals, reports...). |  |

|   |  |
|---|--|
|   |  |
| b-Electronic references, Internet sites...        | The faculty website  |
| <b>13. The development of the curriculum plan</b> | <p>1-Development of academic content by deletion, addition and replacement.</p> <p>2-Using modern methods of teaching appropriate to the level of learners from time to time.</p> <p>3-Updating the assessment methods and measuring the level of students.</p> <p>4- Encouraging e-learning.</p> <p>5-Providing the student with the skills required by the dental profession and the changes of the times.</p> |

|   |  |
|---|--|
| <b>1. Educational Institution</b>                 | Ministry of Higher Education and Scientific Research/<br>University of Baghdad |
| <b>2. University Department/Centre</b>            | College of Dentistry/ Department of Periodontics and<br>Periodontal Surgery    |
| <b>3. The name/code of the Academic Programme</b> | Periodontics / 428PT   |
| <b>4. Programmes included</b>                     | Periodontics (Dentistry)   |
| <b>5. Available Academic Courses</b>              | Student attendance lectures, clinics and seminars throughout<br>the year       |
| <b>6. Academic Study System/Year</b>              | Two semesters/fourth stage   |
| <b>7. Number of hours (total)</b>                 | 120 practical hours and 30 theoretical hours                                   |
| <b>8. Preparation Date of this Description</b>    | 2021-2022-.  |

#### **9. Aims of the Academic Programme**

- The main objective of the branch is to increase the health awareness of the health of the mouth and teeth in the citizens and to treat the patients who suffer from periodontics by preparing medical staffs of students who will perform this role after they have graduated and served in health centres all over Iraq.
- 2. Pedagogy: By giving lectures, holding seminars and performing advanced surgical operations for the purpose of training students.



3. The therapeutic and preventive aspect: The branch currently covers all pathological cases of periodontal disease referred to the faculty as well as the preventive aspect of this subject
-

## **10. Programme outputs and teaching, learning and assessment methods**

### **A. Cognitive Objectives (Knowledge and Understanding)**

- A.1 -Formulate information in such a way that students can understand and increase knowledge regarding diagnosis, treat and continue with various periodontal disease.
- A.2 - Giving students instructions on oral and dental care for patients visiting the College of Dentistry
- A.3 - Students have knowledge of all means of health education of patients to prevent, diagnose and treat periodontal diseases.

### **B. Programme Skill Objectives**

- B.1 - Training students to remove plaque from the teeth and remove discolouration from the teeth
- B.2 - Giving instructions for oral health care
- B.3 - Learning the preventive aspect to prevent periodontal disease and prevent the development of periodontics from getting worse.

### **Methods of Teaching and Learning**

- A.1 - Data show
- A.2 - Educational Movies
- A.3 - LCD
- A.4 - Electronic screens
- A.5 - Transverse cameras
- A.6 - Smart Specs

### **Assessment Methods**

Written and oral examinations, quiz and clinical examinations

**C. Thinking Skills**

- C.1 - Student ability to solve problems and have distinctive thinking
- C.2 - Ability to lead student groups
- C.3 - Assessing student achievements

**Methods of Teaching and Learning**

Follow up the student thinking, expression and responsiveness methods by using all available learning methods such as show data, tutorials, electronic screens and more.

**Assessment Methods**

Preparation of reports, theoretical and practical examinations and grading

**D. General and gained skills (other skills related to employability and personal development).**

- D.1 - Professional preparation
- D.2 - Scientific preparation
- D.3 - Cultural preparation
- D.4 - Employing skills gained so that the students become dentists capable of treating patients

| <b>11. Academic Course structure</b> |              |                             |  |  |  |
|--------------------------------------|--------------|-----------------------------|--|--|--|
| <b>Week</b>                          | <b>Hours</b> | <b>Academic Course name</b> | <b>Theoretical content</b>   | <b>Teaching Method</b>                 | <b>Assessment method</b>                               |
| 1                                    | 1            | Periodontics                | Histology of the periodontium, terms & definitions frequently used in periodontology | A theoretical lesson using Power Point | Practical, short, quarterly, half-year and final exams |
| 2                                    | 2            | Periodontics                | Gingiva  | A theoretical lesson using Power Point | Practical, short, quarterly, half-year and final exams |
| 4                                    | 2            | Periodontics                | Periodontal ligament   | A theoretical lesson using Power Point | Practical, short, quarterly, half-year and final exams |
| 6                                    | 1            | Periodontics                | Alveolar bone  | A theoretical lesson using Power Point | Practical, short, quarterly, half-year and final exams |
| 7                                    | 1            | Periodontics                | Root cementum  | A theoretical lesson using Power Point | Practical, short, quarterly, half-year and final exams |
| 8                                    | 2            | Periodontics                | Etiology of periodontal disease & risk factors                                       | A theoretical lesson using Power Point | Practical, short, quarterly, half-year and final exams |
| 10                                   | 2            | Periodontics                | Microbial dental plaque  | A theoretical lesson using Power Point | Practical, short, quarterly, half-year and final exams |
| 12                                   | 2            | Periodontics                | Dental calculus & tooth stain  | A theoretical lesson using Power Point | Practical, short, quarterly, half-year and final exams |
| 14                                   | 2            | Periodontics                | Pathogenesis of periodontal disease  | A theoretical lesson using Power Point | Practical, short, quarterly, half-year and final exams |

|    |   |              |  |  |  |
|----|---|--------------|--|--|--|
| 16 | 1 | Periodontics | Classification of periodontal disease          | A theoretical lesson using Power Point | Practical, short, quarterly, half-year and final exams |
| 17 | 1 | Periodontics | Gingiva  | A theoretical lesson using Power Point | Practical, short, quarterly, half-year and final exams |
| 18 | 1 | Periodontics | Periodontal ligament                           | A theoretical lesson using Power Point | Practical, short, quarterly, half-year and final exams |
| 19 | 1 | Periodontics | Alveolar bone                                  | A theoretical lesson using Power Point | Practical, short, quarterly, half-year and final exams |
| 20 | 1 | Periodontics | Root cementum                                  | A theoretical lesson using Power Point | Practical, short, quarterly, half-year and final exams |
| 21 | 2 | Periodontics | Etiology of periodontal disease & risk factors | A theoretical lesson using Power Point | Practical, short, quarterly, half-year and final exams |
| 23 | 1 | Periodontics | Microbial dental plaque                        | A theoretical lesson using Power Point | Practical, short, quarterly, half-year and final exams |
| 24 | 2 | Periodontics | Dental calculus & tooth stain                  | A theoretical lesson using Power Point | Practical, short, quarterly, half-year and final exams |
| 26 | 3 | Periodontics | Pathogenesis of periodontal disease            | A theoretical lesson using Power Point | Practical, short, quarterly, half-year and final exams |
| 29 | 1 | Periodontics | Maintenance phase                              | A theoretical lesson using Power Point | Practical, short, quarterly, half-year and final exams |
| 30 | 1 | Periodontics | Drugs in periodontology                        | A theoretical lesson using Power Point | Practical, short, quarterly, half-year and final exams |

|  |   |
|--|---|
| <b>12. Infrastructure</b>  |   |
| 1-Books required reading   | Book for Linda 2009 and Crianza 2012<br>Newman and Carranza's Clinical Periodontology thirteen edition  |
| 2-Main reference sources<br>cc- - Recommended books and references<br>(scientific journals, reports...). |   |
| b-Electronic references, Internet sites...   | The faculty website   |
| <b>13. The development of the curriculum plan</b>  | 1-Development of academic content by deletion, addition and replacement.<br>2-Using modern methods of teaching appropriate to the level of learners from time to time.<br>3-Updating the assessment methods and measuring the level of students.4- Encouraging e-learning.<br>5-Providing the student with the skills required by the dental profession and the changes of the times. |

### Clinical requirement

| Clinical requirement  | Type of treatment   |
|-----------------------|---|
| 2.5h/week    75h/year | Scaling & polishing min.= 4000 points<br>max.=7000 points |

|   |  |
|---|--|
| <b>1. Educational Institution</b>                 | Higher Education - College of Dentistry      |
| <b>2. University Department/Centre</b>            | Prosthodontics                               |
| <b>3. The name/code of the Academic Programme</b> | 410PR  |
| <b>4. Programmes included</b>                     | Prosthodontics (Dentistry)                   |
| <b>5. Available Academic Courses</b>              | Lectures and clinics                         |
| <b>6. Academic Course/year</b>                    | Two semesters / fourth stage                 |
| <b>7. Number of hours (total)</b>                 | 30 theoretical hours and 150 practical hours |
| <b>8. Preparation Date of this Description</b>    | 2021-2022-.                                  |

### 9. Aims of the Academic Programme:

Student are trained on screening patients and diagnose the pathological condition patients through modern, currently approved diagnostic methods and then create a treatment plan, and then start treatment scientifically and use modern materials and methods in the micro denture making by giving theoretical lessons with practice in clinics.

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## **10. Programme outputs and teaching, learning and assessment methods**

### **A. Cognitive Objectives (Knowledge and Understanding)**

- A.1 - Training the student on how to examine and diagnose pathological conditions.
- A.2 - Providing important information and treatment steps.
- A.3 - Providing guidance and follow up on the process of the partial denture making.

### **B. Programme Skill Objectives**

- B.1 - Describe the tools used to treat patients in need of partial dentures
- B.2 - Practical practice of steps to treat patients in need of partial dentures
- B.3 - Following up students during their work

### **Methods of Teaching and Learning**

Intensive practical training within the Dental Teaching Hospital  
LCD lessons, data show, Smart interactive boards, illustrative films and discs.

### **Assessment Methods**

Theoretical and practical exams (clinical.)  
Each student is asked to do a certain number of cases of a flexible or acrylic partial denture and a wide range of cases, including easy, intermediate and difficult cases.  
Case Sheet



**C. Thinking Skills**

C.1. - Problems -solve

C.2.- Capability of leadership

C.3 - Create the spirit of scientific competition between students by direct and indirect questions relating to various cases of dentistry

C.4 - Encourage student to self-development through self-esteem and ongoing training

**Teaching and learning methods**

Theoretical lectures and practical training.

**Assessment Methods**

The theoretical and practical examinations, also, the requirements of treatment, which are the number of cases to be treated on a correct, professional and complete basis, are counted to be part of the requirements of the annual work, besides the graduation project.

**D. General and gained skills (other skills related to employability and personal development.**

D.1 - Student motivation for participation in training Academic Courses and conferences held within and outside the faculty, at the syndicate and at the Iraqi Orthodontic Society.

| 11. Academic Course structure |       |  |                      |   |  |
|-------------------------------|-------|--|----------------------|---|--|
| Week                          | Hours | Theoretical content                              | Academic Course name | Teaching Method                             | Assessment method  |
| 1                             | 1     | Osteology  | Prosthodontics       | 1. A theoretical lectures using Power Point | short, quarterly, half-year and final exams  |
| 2                             | 1     | Myology  |                      |   | For practical assessment, it includes practical examinations   |
| 3                             | 1     | Diagnosis and treatment plan for RPD             |                      |   | Therapeutic cases  |
| 4                             | 1     | To be continued<br>Diagnosis and treatment       |                      |   |  |
| 5                             | 1     | Mouth preparation and abutment tooth preparation |                      |   | The working hours included four hours of time in the clinic weekly and the student are asked for several treatment cases so that they can enter the final exam unless they have completed it |
| 5                             | 1     | To be continued                                  |                      |   |  |
| 7                             | 1     | Impression materials and techniques for RPD      |                      |   |  |
| 8                             | 1     | To be continued                                  |                      |   |  |
| 9                             | 1     | Support in FEE RPD                               |                      |   |  |
| 11                            | 1     | techniques altered cast and metal check          |                      |   |  |
| 11                            | 1     | Occlusion in rpd                                 |                      |   |  |
| 12                            | 1     | Jaw relation in rpd                              |                      |   |  |
| 13                            | 1     | Prep prosthetic surgery                          |                      |   |  |
| 14                            | 1     | To be continued                                  |                      |   |  |
| 15                            | 1     | Diagnosis and treatment plane CD                 |                      |   |  |
| 16                            | 1     | To be continued                                  |                      |   |  |
| 17                            | 1     | Impression in CD                                 |                      |   |  |
|                               |       |  | 4casesFEE,2          |   |  |

| Week | Hours | Theoretical content          | Academic Course name | Teaching Method                        | Assessment method |
|------|-------|------------------------------|----------------------|--|-------------------|
| 18   | 1     | To be continued              | Prosthodontics       | bounded& repair& immediate RPD denture |                   |
| 19   | 1     | TMJ and mandibular movement  |                      | One Cr/Co RPD                          |                   |
| 20   | 1     | Jaw relation-vertical        |                      |  |                   |
| 21   | 1     | To be continued              |                      |  |                   |
| 22   | 1     | Jaw relation- horizontal     |                      |  |                   |
| 23   | 1     | To be continued              |                      |  |                   |
| 24   | 1     | Try in stage in CD           |                      |  |                   |
| 25   | 1     | To be continued              |                      |  |                   |
| 26   | 1     | Insertion of CD              |                      |  |                   |
| 27   | 1     | Adjustments of CD            |                      |  |                   |
| 28   | 1     | relining and rebasing in RPD |                      |  |                   |

***Clinical requirements***

| No. | Study Unit Title                    |
|-----|-------------------------------------|
| 1   | 3 acrylic RPD (free end extension). |
| 2   | 2 acrylic RPD (bounded saddles).    |
| 3   | 1 immediate or flexible RPD.        |
| 4   | 1 case repair.                      |

|   |   |
|---|---|
| <b>12. Infrastructure</b>   |   |
| 1-Books required reading  | Zarb, Hobkirk, Eckert, Jacob et al. Prosthodontic treatment for edentulous patients: Complete dentures and implant-supported prostheses. 13th edition 2013 by Mosby, Elsevier Inc. ▪ Carr and Brown. McCracken's removable partial prosthodontics, 13th edition 2016 by Elsevier, Inc. ▪ Phoenix, Cagna, DeFreest. Stewart's clinical removable partial prosthodontics, 4th edition, 2008 Quintessence Publishing Co, Inc. ▪ Golden and Driscoll. Treating the complete denture patient. 1st edition 2020 John Wiley & Sons, Inc. ▪ Rahn, Ivanhoe and Plummer. Textbook of complete dentures. 6th edition 2009 People's Medical Publishing House-USA. ▪ Veeraiyan, Ramalingam, Bhat. Textbook of prosthodontics. 1st edition 2003 Jaypee Brothers Medical Publishers (P) Ltd. ▪ Jones and García. Removable partial dentures a clinician's guide. 1st edition, A John Wiley and Sons, Inc., Publication.<br>Prosthodontic treatment for edentulous Patient<br>McCracken removable partial denture<br>Textbook, atlas, besides to book for RPD and CD with paper from internet |
| 2-Main reference sources<br>dd- - Recommended books and references (scientific journals, reports...). |   |
| b-Electronic references, Internet sites...  | The faculty website   |
| <b>13. The development of the curriculum plan</b>   | 1-Development of academic content by deletion, addition and replacement.<br>2-Using modern methods of teaching appropriate to the level of learners from time to time.<br>3-Updating the assessment methods and measuring the level of students.<br>4- Encouraging e-learning.<br>5-Providing the student with the skills required by the dental profession and the changes of the times.   |

|   |   |
|---|---|
| <b>1. Educational Institution</b>                 | Higher Education - College of Dentistry |
| <b>2. University Department/Centre</b>            | College of Dentistry                    |
| <b>3. The name/code of the Academic Programme</b> | 519CV Conservative Dentistry            |
| <b>4. Programmes included</b>                     | Conservative Dentistry (Dentistry)      |
| <b>5. Available Academic Courses</b>              | Lectures and clinics                    |
| <b>6. Academic Study System/Year</b>              | Two semesters/ stage 5                  |

|  |  |
|--|--|
| <b>7. Number of hours (total)</b>              | 30 theoretical hours and 150 practical hours |
| <b>8. Preparation Date of this Description</b> | 2021-2022-.                                  |

**9. Aims of the Academic Programme**

Student training on how to screen patients and diagnose the condition with modern diagnostic methods adopted, prepare the treatment plan, start the scientific treatment of the disease and use modern materials and methods to treat root canals, crowns and bridges by giving theoretical lectures with time in the clinics.

## 10. Programme outputs and teaching, learning and assessment methods

### **A. Cognitive Objectives (Knowledge and Understanding)**

- A.1 - Training the student on how to examine and diagnose pathological conditions
- A.2 - Providing important information for treatment steps
- A.3 - Giving guidance and following up on the processes of the root canal.
- A.4 - Providing guidance and following up working on crowns and bridging operations.
- A.5
- A.6

### **B. Programme Skill Objectives**

- B.1 - Describe the tools used to prepare for root canal treatment.
- B.2 - Describe the tools used to prepare teeth for crowns and bridges
- B.3 - Teach the student how to use tools and follow them up while working
- B.4

### **Methods of Teaching and Learning**

Data show, lessons, LCD, educational movies and transverse cameras

### **Assessment Methods**

Theoretical, practical (clinical) and quiz exams

### **C. Thinking Skills**

- C.1 - Solve problems
- C.2 - Capable of leadership
- C.3 -
- C.4 -

### **Methods of Teaching and Learning**

Theoretical and practical lessons (stimulus and response)

### **Assessment Methods**

Examinations

### **D. General and gained skills (other skills related to employability and personal development.)**

- D.1 - Student preparation in practice related to conservative dentistry of crowns, bridges and root canal.
- D.2 -
- D.3 -
- D.4 -

| <b>11. Academic Course structure</b> |              |   |                             |  |   |
|--------------------------------------|--------------|---|-----------------------------|--|---|
| <b>Week</b>                          | <b>Hours</b> | <b>Theoretical content</b>  | <b>Academic Course name</b> | <b>Teaching Method</b>                 | <b>Assessment method</b>                    |
| 1                                    | 1            | Endodontic diagnosis  | Conservative Dentistry      | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 2                                    | 1            | Pain control in endo.   | Conservative Dentistry      | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 3                                    | 1            | Endodontic radiography  | Conservative Dentistry      | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 4                                    | 1            | Intracanal instruments (1)  | Conservative Dentistry      | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 5                                    | 1            | Intracanal instruments (2)  | Conservative Dentistry      | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 6                                    | 1            | Preparation of RCS  | Conservative Dentistry      | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 7                                    | 1            | Microbiology  | Conservative Dentistry      | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 8                                    | 1            | Introduction and Definition of Fixed Bridges and Comparison with Partial Denture. | Conservative Dentistry      | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |

| <b>Week</b> | <b>Hours</b> | <b>Theoretical content</b>                     | <b>Academic Course name</b> | <b>Teaching Method</b>                 | <b>Assessment method</b>                    |
|-------------|--------------|--|-----------------------------|--|---|
| 9           | 1            | Clinical consideration For Bridge Construction | Conservative Dentistry      | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 10          | 1            | RC filling materials                           | Conservative Dentistry      | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 11          | 1            | Obturation of RCS (1)                          | Conservative Dentistry      | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 12          | 1            | Obturation of RCS (2)                          | Conservative Dentistry      | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 13          | 1            | Endo. Emergency treatment                      | Conservative Dentistry      | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 14          | 1            | Endo-perio relations                           | Conservative Dentistry      | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 15          | 1            | Restoration of endo. treated teeth             | Conservative Dentistry      | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 16          | 1            | Tooth discoloration & bleaching                | Conservative Dentistry      | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 17          | 1            | Advantages and Disadvantages of Fixed          | Conservative Dentistry      | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |



| <b>Week</b> | <b>Hours</b> | <b>Theoretical content</b>          | <b>Academic Course name</b> | <b>Teaching Method</b>                 | <b>Assessment method</b>                    |
|-------------|--------------|-------------------------------------|-----------------------------|--|---|
| 18          | 1            | Patient Selection and Examination   | Conservative Dentistry      | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 19          | 1            | Types of Retainer                   | Conservative Dentistry      | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 20          | 1            | Gingival Displacement.              | Conservative Dentistry      | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 21          | 1            | Impression Materials and Procedure. | Conservative Dentistry      | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 22          | 1            | Types of Bridge.                    | Conservative Dentistry      | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 23          | 1            | Tooth discoloration & bleaching     | Conservative Dentistry      | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 24          | 1            | Bite Registration and Articulation  | Conservative Dentistry      | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 25          | 1            | Temporary Restoration               | Conservative Dentistry      | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 26          | 1            | Temporary Bridges                   | Conservative Dentistry      | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 27          | 1            | Pontic And Pontic Design            | Conservative Dentistry      | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |

| Week | Hours | Theoretical content        | Academic Course name   | Teaching Method                        | Assessment method                           |
|------|-------|----------------------------|------------------------|--|---|
| 28   | 1     | Porcelain Material.        | Conservative Dentistry | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 29   | 1     | Try In and Shade Selection | Conservative Dentistry | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 30   | 1     | Failure in Crown & Bridge  | Conservative Dentistry | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |

| 12. Infrastructure  |   |
|---|---|
| 1-Books required reading  | Cohens pathways of the pulp<br>Contemporary Fixed Prosthodontics<br>Rosentetiel.Land.Fugimoto   |
| 2-Main reference sources<br>ee- - Recommended books and references (scientific journals, reports...). |   |
| b-Electronic references, Internet sites...  | The faculty website   |
| <b>13. The development of the curriculum plan</b>   | 1-Development of academic content by deletion, addition and replacement.<br>2-Using modern methods of teaching appropriate to the level of learners from time to time.<br>3-Updating the assessment methods and measuring the level of students.4- Encouraging e-learning.<br>5-Providing the student with the skills required by the dental profession and the changes of the times. |

### Clinical requirements

| Minimum Requirement   | Hours             |
|---|-------------------|
| The students are required to complete the following restorations: -<br>a. Amalgam Restoration<br>Class I 2cases, Class II 5 cases. Class II Compound restoration 2.<br>b. Composite (tooth coloured) Restorations<br>Class III 4, Class IV 2, and Class V 2 cases<br>c. Crown 1unit.<br>d. Endodontics 1case. | 5h/wk.            |
| These requirements are the absolute minimum needed in order to take the final examination.  |                   |
| <b>Total</b>  | <b>150 h/year</b> |

|  |  |
|--|--|
| 1.Educational Institution  | Ministry of higher Education and Scientific Research / University of Baghdad |
| 2.University Department/Centre   | Dentistry/ oral diagnosis  |
| 3.The name/code of the Academic Course   | Oral Medicine 529OM  |
| 4.Programmes included  | Dentistry  |
| 5.Available Academic Courses   | Lectures, seminars, workshops and summer trainings                           |
| 6.Academic Course/year   | Two semesters/ fifth stage   |
| 7.Number of hours (total)  | 30 theoretical hours and 75 practical hours                                  |
| <b>8.Preparation Date of this Description</b>  | 2021-2022-.  |
| <b>9.Objectives of the Academic Course:</b>  |  |
| To qualify dentists who can identify the causes of various oral pathologies and study their diagnosis and treatment methods. |  |

#### 10. Programme outputs and teaching, learning and assessment methods

##### **A. Cognitive Objectives (Knowledge and Understanding)**

- A.1 - The ability to distinguish between different diseases that infect the mouth's soles
- A.2 - Ways to treat mouth disease
- A.3 – Diagnosing and treating temporomandibular joint
- A.4
- A.5

**B. Programme Skill Objectives**

- B.1 - The ability to distinguish between various oral pathologies
- B.2 - How to use pigments
- B.3 - Learn tissue slicing
- B.
- B.4 -

**Methods of Teaching and Learning**

Theoretical Lessons  
Scientific discussions and seminars  
Use LCD monitors  
Use illustrating methods such as video

**Assessment Methods**

Weekly exams  
Half-year and end-of-year exams  
Seminars are presented by students

**C. Thinking Skills**

- C.1 - Identify and diagnose diseases.
- C.2 -
- C.3 -
- C.4 -

**Methods of Teaching and Learning**

Theoretical Lessons  
Scientific discussions and seminars  
Use LCD monitors  
Use illustrating methods such as video

**Assessment Methods**

Weekly exams  
Half-year and end-of-year exams  
Seminars are presented by students

**D. General and gained skills (other skills related to employability and personal development).**

D.1 – Lecturer brings some tissue slices and dyes to rare diseases that cannot be found within the institution and explained to students for the purpose of keeping up with the scientific Academic Course in the field of oral diseases

D.2 -

D.3 -

D.4 -

| <b>11. Academic Course structure</b> |              |  |                             |                          |  |
|--------------------------------------|--------------|--|-----------------------------|--------------------------|--|
| <b>Week</b>                          | <b>Hours</b> | <b>Theoretical content</b>                             | <b>Academic Course name</b> | <b>Teaching Method</b>   | <b>Assessment method</b>                                 |
| 1<br>2<br>3<br>4                     | 2            | The principles of oral diagnosis Clinical examinations | Oral medicine               | Lesson using Power Point | Short, quarterly, half-year and final exams and seminars |
| 5<br>6                               | 2            | Laboratory investigations in dentistry                 | Oral medicine               | Lesson using Power Point | Short, quarterly, half-year and final exams and seminars |
| 7<br>8<br>9<br>11                    | 2            | Facial pain Neuromuscular disorder                     | Oral medicine               | Lesson using Power Point | Short, quarterly, half-year and final exams and seminars |
| 11<br>12                             | 2            | T.M.J  | Oral medicine               | Lesson using Power Point | Short, quarterly, half-year and final exams and seminars |
| 13<br>14                             | 2            | Vesiculobullous lesions                                | Oral medicine               | Lesson using Power Point | Short, quarterly, half-year and final exams and seminars |
| 15<br>16                             | 2            | White &red lesions                                     | Oral medicine               | Lesson using Power Point | Short, quarterly, half-year and final exams and seminars |
| 17<br>18                             | 2            | Oral cancer  | Oral medicine               | Lesson using Power Point | Short, quarterly, half-year and final exams and seminars |
| 19<br>21                             | 2            | Pigmented oral lesions                                 | Oral medicine               | Lesson using Power Point | Short, quarterly, half-year and final exams and seminars |
| 21<br>22                             | 2            | Oral ulceration  | Oral medicine               | Lesson using Power Point | Short, quarterly, half-year and final exams and seminars |
| 23<br>24                             | 2            | BMS  | Oral medicine               | Lesson using Power Point | Short, quarterly, half-year and final exams and seminars |
| 25<br>26                             | 2            | Salivary gland diseases                                | Oral medicine               | Lesson using Power Point | Short, quarterly, half-year and final exams and seminars |
| 27<br>28                             | 2            | Autoimmune diseases                                    | Oral medicine               | Lesson using Power Point | Short, quarterly, half-year and final exams and seminars |

| Week     | Hours | Theoretical content                     | Academic Course name | Teaching Method          | Assessment method  |
|----------|-------|---|----------------------|--------------------------|--|
| 29<br>31 | 2     | Oral manifestation of allergic reaction | Oral medicine        | Lesson using Power Point | Short, quarterly, half-year and final exams and seminars |

| 12. Infrastructure  |   |
|---|---|
| 1-Books required reading  | Burket's oral medicine. Michael Glick, Martin Greenberg, Peter Lockhart and Dstephen Challacombe. 13th edition.2021, Wiley Black well   |
| 2-Main reference sources<br>ff- - Recommended books and references (scientific journals, reports...). |   |
| b-Electronic references, Internet sites...  | The faculty website   |
| <b>13. The development of the curriculum plan</b>   | 1-Development of academic content by deletion, addition and replacement.<br>2-Using modern methods of teaching appropriate to the level of learners from time to time.<br>3-Updating the assessment methods and measuring the level of students.4- Encouraging e-learning.<br>5-Providing the student with the skills required by the dental profession and the changes of the times. |

### *Clinical requirements*

| No. | Title of the sessions        | Hours |
|-----|------------------------------|-------|
| 1   | Bacterial infections.        | 2.5   |
| 2   | Viral infections.            | 2.5   |
| 3   | Fungal infections.           | 2.5   |
| 4   | Cardiovascular system        | 2.5   |
| 5   | Cardiovascular system        | 2.5   |
| 6   | Anaemia                      | 2.5   |
| 7   | Anaemia                      | 2.5   |
| 8   | Leukaemia                    | 2.5   |
| 9   | Leukaemia                    | 2.5   |
| 10  | GIT                          | 2.5   |
| 11  | Hepatitis                    | 2.5   |
| 12  | Respiratory disease          | 2.5   |
| 13  | Diabetes                     | 2.5   |
| 14  | Diabetes                     | 2.5   |
| 15  | Thyroid and growth hormones. | 2.5   |
| 16  | Adrenal insufficiency.       | 2.5   |
| 17  | Adrenal insufficiency        | 2.5   |

| No.   | Title of the sessions                       | Hours |
|-------|---|-------|
| 18    | Renal disease                               | 2.5   |
| 19    | Bleeding disorders and blood dyscrasias     | 2.5   |
| 20    | Granulomatous disease of the oral cavity.   | 2.5   |
| 21    | Granulomatous disease of the oral cavity.   | 2.5   |
| 22    | Drug induced oral lesions                   | 2.5   |
| 23    | STDs (sexually transmitted diseases)        | 2.5   |
| 24    | Drugs in dentistry                          | 2.5   |
| 25    | Immunological aspects of oral diseases      | 2.5   |
| 26    | Immunological aspects of oral diseases      | 2.5   |
| 27    | Neuromuscular disorders of the face.        | 2.5   |
| 28    | Neuromuscular disorders of the face.        | 2.5   |
| 29    | Benign and malignant lesions of oral cavity | 2.5   |
| 30    | Benign and malignant lesions of oral cavity | 2.5   |
| Total |   | 75    |

|  |  |
|--|--|
| <b>1. Educational Institution</b>  | Ministry of Higher Education and Scientific Research |
| <b>2. University Department/Centre</b>   | Branch of Oral, Maxillofacial and Dental Surgery     |
| <b>3. The name/code of the Academic Programme</b>  | Oral Surgery/522OS                                   |
| <b>4. Programme included</b>   | Dentistry  |
| <b>5. Available Academic Courses</b>   | Theoretical and practical lectures                   |
| <b>6. Academic Study System/Year</b>   | Two semesters/ fifth stage                           |
| <b>7. Number of hours (total)</b>  | 30 theoretical hours and 150 practical hours         |
| <b>8. Preparation Date of this Description</b>   | 2021-2022-.  |
| <b>9. Objectives of the Academic Programme</b>   |  |
| Preparing students for a high level of scientific knowledge in relation to the principles of Oral, Maxillofacial and Dental Surgery, especially benign and malignant tumours, orthopaedic surgery, facial injuries, maxillofacial and dental implants. |  |



## 10. Programme outputs and teaching, learning and assessment methods

### A. Cognitive Objectives (Knowledge and Understanding)

- A.1 - Acquiring basic knowledge of the principles of Oral, Maxillofacial and Dental Surgery.
- A.2 - Gaining basic knowledge of dental implantability.
- A.3 -
- A.4 -
- A.5 -
- A.6 -

### B. Special skills

- B.1 - Dental extraction trainings
- B.2 - Minor dental surgery trainings
- B.3 - Surgical diagnosis trainings
- B.4 - Introduce students to the principles of dental implantation and the use of lasers in oral surgery

### Methods of Teaching and Learning

Lessons using Power Point (Data show)  
Dental and Micro-Operations Clinics and Surgeon Diagnosis  
Seminars preparation by students under the supervision of their lecturers

### Assessment Methods

Quarterly, half-year, final and short exams and practical exams

### C. Thinking Skills

- C.1 - Dealing with oral surgery, dental extractions and complications related to them
- C.2 - Developing student researches aspects
- C.3
- C.4

### Methods of Teaching and Learning

Theoretical lessons, dental extraction clinics, minor operations and surgical diagnosis

### Assessment methods

Theoretical, practical exams and seminars

**D. General and gained skills (other skills related to employability and personal development.)**

D.1 - Student preparation in practice in relation to oral surgery, local anaesthesia, tooth extraction and diagnosis of oral, maxillofacial and dental diseases and dental implants.

D.2 -

D.3 -

D.4 -

| <b>11. Academic Course structure</b> |              |                            |                             |  |   |
|--------------------------------------|--------------|----------------------------|-----------------------------|--|---|
| <b>Week</b>                          | <b>Hours</b> | <b>Theoretical content</b> | <b>Academic Course name</b> | <b>Teaching Method</b>                 | <b>Assessment method</b>                    |
| 1                                    | 1            | Endodontic surgery         | Oral surgery                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 2                                    | 1            | Orofacial pain             | Oral surgery                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 3                                    | 2            | Benign cystic lesions      | Oral surgery                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 5                                    | 2            | Preprosthetic surgery      | Oral surgery                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 7                                    | 1            | Salivary gland diseases    | Oral surgery                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 8                                    | 1            | Diseases of TMJ            | Oral surgery                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 9                                    | 4            | Facial injuries            | Oral surgery                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 13                                   | 2            | Premalignant conditions    | Oral surgery                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 15                                   | 1            | Oral cancer                | Oral surgery                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |

| <b>Week</b> | <b>Hours</b> | <b>Theoretical content</b>    | <b>Academic Course name</b> | <b>Teaching Method</b>                 | <b>Assessment method</b>                    |
|-------------|--------------|-------------------------------|-----------------------------|--|---|
| 16          | 1            | Biopsy in oral surgery        | Oral surgery                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 17          | 1            | Odontogenic tumours           | Oral surgery                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 18          | 1            | Non- odontogenic tumours      | Oral surgery                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 19          | 1            | Fibro-osseous lesions         | Oral surgery                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 21          | 1            | Diagnostic imaging            | Oral surgery                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 21          | 2            | Surgical aids to orthodontics | Oral surgery                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 23          | 2            | Orthognathic surgery          | Oral surgery                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 25          | 2            | Cleft lip & palate            | Oral surgery                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 27          | 1            | LASER & Cryosurgery           | Oral surgery                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 28          | 1            | Management of foreign bodies  | Oral surgery                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 29          | 2            | Reconstructive surgery        | Oral surgery                | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |

| <b>12. Infrastructure</b>  |   |
|--|---|
| 1-Books required reading   | Contemporary oral and maxillofacial surgery 7th edition 2019 (Elsevier).<br>Contemporary oral and maxillofacial surgery 5 <sup>th</sup> edition 2008.<br>An outline of oral surgery 2000.<br>Rowe and William's maxillofacial injuries 1994.<br>Maxillofacial Surgery 2004.<br>Contemporary implant dentistry 3 <sup>rd</sup> edition 2008.   |
| 2-Main reference sources<br>a- Recommended books and references (scientific journals, reports...). |   |
| b-Electronic references, Internet sites...   | The faculty website   |
| <b>13. The development of the curriculum plan</b>  | 1-Development of academic content by deletion, addition and replacement.<br>2-Using modern methods of teaching appropriate to the level of learners from time to time.<br>3-Updating the assessment methods and measuring the level of students.<br>4- Encouraging e-learning.<br>5-Providing the student with the skills required by the dental profession and the changes of the times. |

| Clinical requirement         | Hours           |
|------------------------------|-----------------|
| - Extraction of simple cases | 5 Hours/ week   |
| - Surgical operations        |                 |
| - Seminars of oral surgery   | 150 Hours/ Year |

|   |  |
|---|--|
| <b>1. Educational Institution</b>   | Higher Education - College of Dentistry        |
| <b>2. University Department/Centre</b>  | Branch of Pedodontics and Preventive Dentistry |
| <b>3. The name/code of the Academic Programme</b>   | Pedodontics/427PE                              |
| <b>4. Programmes included</b>   | Dentistry                                      |
| <b>5. Available Academic Courses</b>  | Theoretical lectures                           |
| <b>6. Academic Study System/Year</b>  | Two semesters/fifth stage                      |
| <b>7. Number of hours (total)</b>   | 30 theoretical hours and 75 practical hours    |
| <b>8. Preparation Date of this Description</b>  | 2021-2022-.                                    |
| <b>9. Aims of the Academic Programme</b>  |  |
| understand the theoretical and practical ways to treat all cases of children teeth and to learn about scientific methods and methods supported by means of illustration to learn how to identify the brown and permanent teeth and the problems associated with them. |  |

#### **10. Programme outputs and teaching, learning and assessment methods**

##### **A. Cognitive Objectives (Knowledge and Understanding)**

A.1 - Drafting information to enable students to understand them.

A.2 - Increasing knowledge regarding the diagnosis and treatment of various pedodontics dentistry in children

A.3 - Caring for mouth and teeth and promoting awareness of the importance of maintaining the deciduous teeth until the permanent teeth are formed in children.

**B. Programme Skill Objectives**

- B.1 - Training students in pathological conditions of teeth of children
- B.2 - Giving instructions on how to deal with children conditions
- B.3 – Acquiring skills to diagnose the deciduous and permanent teeth of children

**Methods of Teaching and Learning**

- 1. Data Show
- 2. Educational Movies
- 3. LCD
- 4. Transverse cameras

**Assessment Methods**

- 1. Attendance
- 2. Daily, short and quiz exams
- 3. Quarterly exams
- 4. Half-year exams
- 5. Final exams
- 6. Making questions and discussions during lectures.

**C. Thinking Skills**

- C.1 - Student ability to solve problems and have distinctive thinking
- C.2 -Ability to lead student groups
- C.3 -Assessing student achievements

**Methods of Teaching and Learning**

Following up the student thinking, expression and responsiveness methods

**Assessment Methods**

- 1. Depending on the student attendance and commitment to the lectures and their interaction with the lecturers
- 2. Taking short exams to assess student understanding of the material presented and explained in the lecture
- 3. Taking planned exams as the quarterly, half and final exams.

**D. General and gained skills (other skills related to employability and personal development).**

D.1 - Professional preparation

D.2 - Scientific preparation

D.3 - Cultural preparation

D.4 -Employing skills gained so that the student becomes a dentist capable of treating patients.



| 11. Academic Course structure |       |   |                      |  |   |
|-------------------------------|-------|---|----------------------|--|---|
| Week                          | Hours | Theoretical content   | Academic Course name | Teaching Method                        | Assessment method                           |
| 1                             | 1     | Eruption of teeth, normal eruption process                              | Pedodontics          | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 2                             | 1     | Teething and difficult eruption   | Pedodontics          | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 3                             | 1     | Eruption haematoma, sequestrum, ectopic eruption                        | Pedodontics          | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 4                             | 1     | Natal and neonatal teeth  | Pedodontics          | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 5                             | 1     | Local factors influence eruption  | Pedodontics          | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 6                             | 1     | Systemic factors influence eruption                                     | Pedodontics          | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 7                             | 1     | Morphology of the primary teeth   | Pedodontics          | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 8                             | 1     | Normal morphology of all primary teeth and their clinical consideration | Pedodontics          | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 9                             | 1     | Morphologic differences between primary and permanent teeth             | Pedodontics          | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 10                            | 1     | Functions of primary teeth  | Pedodontics          | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 11                            | 1     | Dental caries.<br>Definition and Classification                         | Pedodontics          | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |

| <b>Week</b> | <b>Hours</b> | <b>Theoretical content</b>  | <b>Academic Course name</b> | <b>Teaching Method</b>                 | <b>Assessment method</b>                    |
|-------------|--------------|---|-----------------------------|--|---|
| 12          | 1            | Etiology of dental caries   | Pedodontics                 | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 13          | 1            | Early childhood caries,   | Pedodontics                 | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 14          | 1            | Nursing caries, baby bottle tooth decay   | Pedodontics                 | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 15          | 1            | Severe childhood caries   | Pedodontics                 | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 16          | 1            | Rampant dental caries   | Pedodontics                 | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 17          | 1            | Restorative dentistry for children  | Pedodontics                 | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 18          | 1            | Solation & maintenance of dry field and application of the rubber Dam   | Pedodontics                 | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 19          | 1            | Morphological consideration, cavity preparation and instrumentation   | Pedodontics                 | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 20          | 1            | Cavity preparation on primary teeth, restorative materials used on paediatric dentistry, matrices & retainers | Pedodontics                 | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 21          | 1            | Chrome steel crowns   | Pedodontics                 | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 22          | 1            | Atrumatic Restorative Therapy (ART)   | Pedodontics                 | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |

| Week | Hours | Theoretical content                                       | Academic Course name | Teaching Method                        | Assessment method                           |
|------|-------|---|----------------------|--|---|
| 23   | 1     | Treatment of deep caries                                  | Pedodontics          | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 24   | 1     | Diagnosis aids in the selection of teeth for pulp therapy | Pedodontics          | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 25   | 1     | Indirect pulp treatment                                   | Pedodontics          | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 26   | 1     | Vital pulp therapy  | Pedodontics          | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 27   | 1     | pulpotomy   | Pedodontics          | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 28   | 1     | Non vital pulp therapy technique                          | Pedodontics          | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 29   | 1     | Reaction of pulp to various capping material              | Pedodontics          | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 30   | 1     | Failure after vital pulp therapy                          | Pedodontics          | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |

| No.          | Clinical requirements   |
|--------------|---|
| 1            | Prophylaxis/ Prophylaxis with fluoride  |
| 2            | Extraction  |
| 3            | Restoration (cl I, cl II, I III, cl IV, cl V, full coverage composite)        |
| 4            | Pulp treatment (FP, VP, RCT, DPC and IPC)                                     |
| 5            | Others (mass excavation, C.S.C, splint, space maintainer and fissure sealant) |
| 6            | Patient motivation  |
| <b>Total</b> | <b>37.5 hours/year</b>  |

|  |  |
|--|--|
| <b>12. Infrastructure</b>  |  |
| 1-Books required reading   | McDONALD AND AVERY'S DENTISTRY for CHILD and ADOLESCENT 2016 by Elsevier<br>Pediatric Dentistry Damile 3rd ed. 2009<br>Text book of pediatric dentistry Nikhil Marwa 2nd ed. 2009<br>New Delh Hand book of pediatric dentistry (Cameron) mosby/third edition/2008<br>Principles and practice of pedodontics /Arathi Rao Jaypee/second edition2008<br>Paediatric Dentistry/ Richard Welbury/ Fourth edition Oxford University Press, 2012 |
| 2-Main reference sources   |  |
| a- Recommended books and references (scientific journals, reports...). |  |
| b-Electronic references, Internet sites...                             | The faculty website  |
| <b>13. The development of the curriculum plan</b>                      | 1-Development of academic content by deletion, addition and replacement.<br>2-Using modern methods of teaching appropriate to the level of learners from time to time.<br>3-Updating the assessment methods and measuring the level of students.4- Encouraging e-learning.<br>5-Providing the student with the skills required by the dental profession and the changes of the times.  |

|   |  |
|---|--|
| 1.Educational Institution                     | Higher Education - College of Dentistry        |
| 2.University Department/ Centre               | Branch of Pedodontics and Preventive Dentistry |
| 3.The name/code of the Academic Programme     | Preventive Dentistry 531PD                     |
| 4.Programmes included                         | Prevention (Dentistry)                         |
| 5.Available Academic Courses                  | Theoretical lectures and practical clinics     |
| 6.Academic Study System/Year                  | Yearly   |
| 7.Number of hours (total)                     | 30 hours theoretical 75 hours practical        |
| <b>8.Preparation Date of this Description</b> | 2021-2022-.                                    |

## **9. Aims of the Academic Programme**

The definition of the importance of preventive dentistry and its applications to individuals and society, especially for widespread diseases such as tooth decay and leprosy, as well as for nutrition and immune factors of oral pathology.

## 10. Programme outputs and teaching, learning and assessment methods

### A. Cognitive Objectives (Knowledge and Understanding)

- A.1 -The formulates information in a way that students can understand and increase knowledge regarding the diagnosis and treatment of various diseases such as dental caries
- A.2 -Giving guidelines for dental care and health education to prevent tooth decay and periodontal disease
- A.3 - Providing special guidance and preventive programmes for oral and dental health to adults and people with special needs.

### B. Programme Skill Objectives

- B.1 - Training the student to treat tooth decay and remove the sediments from the teeth
- B.2 - Training the student to be able to use fluoride for the apocalcius
- B.3 -Giving directions of care for mouth teeth health.

### Methods of Teaching and Learning

Theoretical lessons using the LDC and data show  
Education Movies  
Practical lessons

### Assessment Methods

- 1. Conducting daily quiz exams
- 2. Written and oral exams
- 3. Conducting clinical tests on patients
- 4. A practical assessment of the (Requirement)

### C. Thinking Skills

- C.1 - Acquisition of the main principles of the curriculum, as required.
- C.2 -Ability of students to solve problems and have a distinct thinking

### Methods of Teaching and Learning

- 1. Following up the way student thinks, how they make expression and how quickly they respond
- 2. Illustrative demonstration to the clinical treatment of patients

### Assessment Methods

- 1. Daily oral and written examinations are held
- 2. Daily assessment of student performance in the clinic during patient treatments.

**D. General and gained skills (other skills related to employability and personal development).**

D.1 - None

D.2 -

D.3 -

D.4 -

| <b>11. Academic Course structure</b> |              |                                     |                             |  |   |
|--------------------------------------|--------------|-------------------------------------|-----------------------------|--|---|
| <b>Week</b>                          | <b>Hours</b> | <b>Theoretical content</b>          | <b>Academic Course name</b> | <b>Teaching Method</b>                 | <b>Assessment method</b>                    |
| 1                                    | 1            | Preventive dentistry (introduction) | Prevention                  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 2                                    | 1            | Etiology of dental caries           | Prevention                  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 3                                    | 1            | Fluoride in Dentistry               | Prevention                  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 4                                    | 1            | Systemic fluoridation (history)     | Prevention                  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 5                                    | 1            | Communal water fluoridation         | Prevention                  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 6                                    | 1            | Fluoride supplements                | Prevention                  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 7                                    | 1            | Topical fluoridation                | Prevention                  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 8                                    | 1            | Self-applied fluoride               | Prevention                  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 9                                    | 1            | Professionally applied fluoride     | Prevention                  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 10                                   | 1            | Toxicity of fluoride                | Prevention                  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 11                                   | 1            | Microbiology of caries              | Prevention                  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 12                                   | 1            | Cariogenic potential of bact.       | Prevention                  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |



| <b>Week</b>            | <b>Hours</b> | <b>Theoretical content</b>             | <b>Academic Course name</b> | <b>Teaching Method</b>                 | <b>Assessment method</b>                    |
|------------------------|--------------|--|-----------------------------|--|---|
| 13                     | 1            | Fissure sealants                       | Prevention                  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 14                     | 1            | New approach in restorative dentistry  | Prevention                  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 15                     | 1            | Diet and dental caries                 | Prevention                  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| <b>Half-year Break</b> |              |  |                             |  |   |
| 16                     | 1            | Non- sugar sweeteners                  | Prevention                  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 17                     | 1            | Dietary counselling in dental practice | Prevention                  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 18                     | 1            | Nutrition and oral health              | Prevention                  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 19                     | 1            | Nutrition, diet &periodontal disease   | Prevention                  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 20                     | 1            | Saliva and dental caries               | Prevention                  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 21                     | 1            | Oral immune system                     | Prevention                  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 22                     | 1            | Oral hygiene measures                  | Prevention                  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 23                     | 1            | Dental Caries development              | Prevention                  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 24                     | 1            | Diagnosis of caries                    | Prevention                  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |

| Week | Hours | Theoretical content                                      | Academic Course name | Teaching Method                        | Assessment method                           |
|------|-------|--|----------------------|--|---|
| 25   | 1     | Identification of high-risk group                        | Prevention           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 26   | 1     | Chemo prophylactic agents                                | Prevention           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 27   | 1     | Geriatric dentistry                                      | Prevention           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 28   | 1     | Dental health of disable and medically compromised child | Prevention           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 29   | 1     | Health education and motivation                          | Prevention           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| 30   | 1     | Uses of laser in dentistry                               | Prevention           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |

### *Clinical requirements*

| No.   | Title of the sessions   |                 |
|-------|---|-----------------|
|       | <p>The minimum requirements that allow the students to enter the final examination include:</p> <ul style="list-style-type: none"> <li>✓ Oral hygiene score</li> <li>✓ Dental caries scores</li> <li>✓ Nutritional assessments</li> <li>✓ Prophylaxis</li> <li>✓ Fluoride therapy</li> <li>✓ Fissure sealant</li> <li>✓ Restorations for teeth (primary and permanents) include amalgam and composite fillings</li> <li>✓ Extraction for teeth that indicated for extraction</li> </ul> |                 |
| Total |   | 37.5 hours/year |

## 12. Infrastructure

1-Books required reading

The prevention of oral disease by Murry JJ Nunn JH and Steele JG fourth edition, 2003  
 Primary Preventive Dentistry by Harris NO Garcia-GodoyNa the CN 7th Ed. (2008)  
 Essential of dental caries the disease and its management by Kidd E third edition (2005)  
 Textbook of Cariology by Fejerscov and Thylstry 1996  
 Principles and practice of public health dentistry by Krishna M and DasarPL.2010  
 Community dentistry by Sikri V and Sikri P 2008  
 Textbook of preventive and social - medicine. Gupta M. and Mahajan BK.3rd edition, 2003

|   |  |
|---|--|
|   | <p>Dentistry, dental practices and the - community Striffler D, Young W., and Burt B., 5th edition 1999.</p> <p>The prevention of oral diseases. Murray J.J., Nunn G. H. and Steele J. G. 4th edition, 2003.</p> <p>Primary Preventive Dentistry by Harris NO Garcia-GodoyF-NatheCN 8th Ed. (2014) • Comprehensive preventive dentistry (2012) Edited by Hardy Limeback • Dental caries, the disease and clinical management. Olefejrslkov and Edwina kidd., 2nd edition , black well, 2008.</p> |
| <p>2-Main reference sources<br/>gg- - Recommended books and references<br/>(scientific journals, reports...).</p> |  |
| <p>b-Electronic references, Internet sites...</p>   | <p>The faculty website</p>   |
| <p><b>13. The development of the curriculum plan</b></p>  | <p>1-Development of academic content by deletion, addition and replacement.</p> <p>2-Using modern methods of teaching appropriate to the level of learners from time to time.</p> <p>3-Updating the assessment methods and measuring the level of students.</p> <p>4- Encouraging e-learning.</p> <p>5-Providing the student with the skills required by the dental profession and the changes of the times.</p>   |

|   |  |
|---|--|
| <b>1. Educational Institution</b>   | Higher Education - College of Dentistry      |
| <b>2. University Department/Centre</b>  | Prosthodontics                               |
| <b>3. The name/code of the Academic Programme</b>   | Prosthodontics /510PR                        |
| <b>4. Programmes included</b>   | Prosthodontics (Dentistry)                   |
| <b>5. Available Academic Courses</b>  | Lectures and clinics                         |
| <b>6. Academic Study System/Year</b>  | Two semesters/fifth stage                    |
| <b>7. Number of hours (total)</b>   | 30 theoretical hours and 150 practical hours |
| <b>8. Preparation Date of this Description</b>  | 2021-2022-.                                  |
| <b>9. Aims of the Academic Programme</b>  |  |
| <p>Student are trained on examining patients and diagnose the disease of the patient through modern, currently approved diagnostic methods and make a treatment plan. Then, starting the treatment in a scientific way using modern materials and methods in making a complete denture, by giving theoretical lessons with practice in clinics</p>  |  |
| <p>The practice of prosthodontics has continuous evolved as a result of progress in a laboratory and biomaterial science, clinical technologies and multidisciplinary advancements. There is a tendency of prosthodontists to assess their patient's treatment needs based on morphological consideration.</p> <p>The objectives are to acquire:</p> <ol style="list-style-type: none"> <li>a) Knowledge</li> <li>b) Skills and</li> <li>c) Attitudes</li> </ol> <ol style="list-style-type: none"> <li>1. Willing to applying the current knowledge of dentistry in the best interest of the patients and the community</li> <li>2. Maintain a high standard of professional ethics and conduct, and apply these in all aspects of professional life, to examine, diagnose and formulate a treatment plan to deal with edentulous conditions by way of providing a suitable prosthesis.</li> </ol> |  |

## **10. Programme outputs and teaching, learning and assessment methods**

### **A. Cognitive Objectives (Knowledge and Understanding)**

- A.1 - Training the students on how to examine and diagnose pathological conditions.
- A.2 - Providing important information and treatment steps.
- A.3 - Providing guidance and following up the process of making a complete and flexible denture and other conditions such as relining or rebasing the complete denture or repair it.
- A.4 - Providing the students with the skills of dealing with patients with considering the difference of their psychological, mode and health conditions, because the dentist does not treat the teeth, which are in the mouth of the patient, but rather, treat the patient who has the teeth in their mouth.

### **B. Programme Skill Objectives**

- B.1 - Describe the tools used to treat patients in need of complete dentures
- B.2 - Practical training on steps to treat patients in need of full-time basis.
- B.3 - Follow-up of the students while they are on practical trainings in clinics
- B.4 - Follow-up the students during their completion of the laboratory denture steps, because students are obliged to do all laboratory work steps in the laboratory of students of fourth and fifth stages, which is fully equipped with all materials and supplies needed.

### **Methods of Teaching and Learning**

- Intensive practical training inside the Dental Teaching Hospital
- LCD, lecture, Data show, Smart boards, illustrative films and discs
- seminars
- group learning workshops
- Annual Conference of College of Dentistry
- Graduation Research
- Summer Trainings

### **Assessment Methods**

#### **C. Thinking Skills**

- C.1 – Ability to solve problems.
- C.2 – Ability of leadership
- C.3 - Encouraging the spirit of scientific competition between students by making direct and indirect questions relating to various cases of dental medicine
- C.4 - Encouraging students for self-development through peers, ongoing trainings, attendance of workshops and continuing academic courses inside and outside the College of Dentistry.

**Methods of Teaching and Learning**

Theoretical and practical Lectures (stimulus and response)

**Assessment Methods**

The theoretical and practical examinations, also, the requirements of treatment, which are the number of cases to be treated on a correct, professional and complete basis, are counted to be part of the requirements of the annual work, besides the graduation project.

**D. General and gained skills (other skills related to employability and personal development).**

D.1 – The student motivation for participating in the Academic Courses and conferences held inside and outside the College of Dentistry.

## 11. Academic Course structure

| Week | Hours | Theoretical content                         | Academic Course name | Teaching Method                        | Assessment method                                       |
|------|-------|---|----------------------|--|---|
| 1    | 1     | Occlusion in Complete Denture               | Prosthodontics       | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 2    | 1     | Occlusion in Complete Denture (Continue)    | Prosthodontics       | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 3    | 1     | Retention, Stability and Support            | Prosthodontics       | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 4    | 1     | Retention, Stability and Support (Continue) | Prosthodontics       | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 5    | 1     | Post Insertion Problems                     | Prosthodontics       | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 6    | 1     | Post Insertion Problems (Continue)          | Prosthodontics       | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 7    | 1     | Complications of Complete Denture           | Prosthodontics       | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |

| <b>Week</b> | <b>Hours</b> | <b>Theoretical content</b>   | <b>Academic Course name</b> | <b>Teaching Method</b>                 | <b>Assessment method</b>                                |
|-------------|--------------|--|-----------------------------|--|---|
| 8           | 1            | Complications of Complete Denture (Continue)                       | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 9           | 1            | Immediate Denture  | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 10          | 1            | Immediate Denture (Continue)                                       | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 11          | 1            | Classification system for completely edentulous patients           | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 12          | 1            | Classification system for completely edentulous patients(continue) | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 13          | 1            | Posterior palatal seal area  | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 14          | 1            | Single CD  | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 15          | 1            | Single CD (Continue)   | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 16          | 1            | Geriatric Dentistry  | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |



| <b>Week</b> | <b>Hours</b> | <b>Theoretical content</b>        | <b>Academic Course name</b> | <b>Teaching Method</b>                 | <b>Assessment method</b>                                |
|-------------|--------------|-----------------------------------|-----------------------------|--|---|
| 17          | 1            | Maxillofacial Prosthesis          | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 18          | 1            | Facial Prosthesis (Continue)      | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 19          | 1            | Alveolar Ridge Atrophy            | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 20          | 1            | Alveolar Ridge Atrophy (Continue) | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 21          | 1            | Dental Implantology               | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 22          | 1            | Dental Implantology (Continue)    | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 23          | 1            | Esthetics in CD                   | Prosthodontics              | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |

| Week | Hours | Theoretical content                                   | Academic Course name | Teaching Method                        | Assessment method                                       |
|------|-------|---|----------------------|--|---|
| 24   | 1     | Characteristics of Ideal Materials for Dental Implant | Prosthodontics       | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 25   | 1     | Copy denture  | Prosthodontics       | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 26   | 1     | Over Denture  | Prosthodontics       | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 27   | 1     | Over Denture (Continue)                               | Prosthodontics       | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 28   | 1     | Neutral zone in CD                                    | Prosthodontics       | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 29   | 1     | Precision Attachments                                 | Prosthodontics       | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |
| 30   | 1     | Precision Attachments (Continue)                      | Prosthodontics       | A theoretical lesson using Power Point | Short, quarterly, half-year and final theoretical exams |

## 12. Infrastructure

1-Books required reading

2-Main reference sources

▪ Zarb, Hobkirk, Eckert, Jacob et al. Prosthodontic treatment for edentulous patients: Complete dentures and implant-supported prostheses. 13th edition 2013 by Mosby, Elsevier Inc. ▪ Golden and Driscoll. Treating the complete denture patient. 1st edition 2020 John Wiley & Sons, Inc. ▪ Rahn, Ivanhoe and Plummer. Textbook of complete dentures. 6th edition 2009 People's Medical Publishing House-USA.

|  |   |
|--|---|
| hh- - Recommended books and references<br>(scientific journals, reports...). |   |
| b-Electronic references, Internet sites...                                   | The faculty website   |
| <b>13. The development of the curriculum plan</b>                            | 1-Development of academic content by deletion, addition and replacement.<br>2-Using modern methods of teaching appropriate to the level of learners from time to time.<br>3-Updating the assessment methods and measuring the level of students.<br>4- Encouraging e-learning.<br>5-Providing the student with the skills required by the dental profession and the changes of the times. |

*Clinical requirements*

| No.   | Title of the sessions   | Hours |
|-------|---|-------|
| 1     | 2 cases of upper and lower complete dentures                        |       |
| 2     | 1 single complete denture against partial denture or natural teeth. |       |
| 3     | 1 immediate or flexible RPD.  |       |
| 4     | 1 case repair.  |       |
| Total |   | 150   |

|   |  |
|---|--|
| <b>1. Educational Institution</b>   | Ministry of Higher Education and Scientific Research |
| <b>2. University Department/Centre</b>  | Orthodontic branch                                   |
| <b>3. The name/code of the Academic Programme</b>   | Orthodontics /526OD                                  |
| <b>4. Programmes included</b>   | Dentistry  |
| <b>5. Available Academic Courses</b>  | theoretical lectures and clinics                     |
| <b>6. Academic Study System/Year</b>  | Two semesters/ the fifth stage                       |
| <b>7. Number of hours (total)</b>   | 30 theoretical hours and 75 practical hours          |
| <b>8. Preparation Date of this Description</b>  | 2021-2022  |
| <b>9. Aims of the Academic Programme:</b><br>To prepare students for having a high level of scientific knowledge in the diagnosis and treatment of the minor cases of poor bites using movable and functional appliances. |  |

## 10. Programme outputs and teaching, learning and assessment methods

### A. Cognitive Objectives (Knowledge and Understanding)

A.1 – to gain knowledge of ways to diagnose and treat cases of poor bites

### B. Programme Skill Objectives

B.1 – to learn the special diagnostic methods

B.2 - to learn the types of dental devices related to each case.

B.3.-

B.4 -.

### Methods of Teaching and Learning

Lessons using power point (data show)

Training clinics to evaluate jaw and teeth

### Assessment Methods

Short, quarterly, half-year and final exams

### C. Thinking Skills

C.1 - The ability to solve the problem of bad dentures by using movable and functional devices.

C.2 -

C.3 -

C.4 -

### Methods of Teaching and Learning

Theoretical lessons and medical clinics

### Assessment Methods

Short, quarterly, half-year and final exams

### D. General and gained skills (other skills related to employability and personal development).

D.1 -Prepare the students in practice for diagnosing and treating minor poor bites.

D.2 -

D.3 -

D.4 -

## 11. Academic Course structure

| week | hours | Academic course name | Theoretical contents   | Teaching method                        | Assessment method                           |
|------|-------|----------------------|--|--|---|
| ١    | ١     | Orthodontic          | <u>Orthodontic diagnosis and treatment planning:</u><br>a. Personal data<br>b. Clinical examination<br>i. General body stature<br>ii. Face examination in 3 dimensions<br>iii. Skeletal examination<br>iv. Soft tissue examination | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٢    | ١     | Orthodontic          | v. Occlusion (classification, midline, overjet and overbite)<br>vi. Dentition (teeth number, position, dental age, wear, cracks and white spots)<br>vii. Temporomandibular joint   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٣    | ١     | Orthodontic          | c. Diagnostic aids<br>i. orthopantomography (development, advantages, disadvantages, limitations, uses)<br>ii. Study models (preparation, advantages, disadvantages, uses)<br>Handling of dental cast                              | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٤    | 1     | Orthodontic          | iii. cephalometrics (development, cephalostat, advantages, disadvantages, limitations, uses, tracing and landmarks)<br>iv. Soft tissue analysis, Digitizing  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |

|   |   |             |  |  |   |
|---|---|-------------|--|--|---|
| o | v | Orthodontic | v. Photography<br>vi. 3D imaging<br>d. Consent form  | A theoretical<br>lesson using<br>Power Point | Short, quarterly,<br>half-year and<br>final exams |
| 6 | v | Orthodontic | e. treatment planning:<br>preventive, interceptive,<br>and corrective orthodontics   | A theoretical<br>lesson using<br>Power Point | Short, quarterly,<br>half-year and<br>final exams |
| 7 |   |             | Treatment of medically<br>compromised patient<br>1-Hypersensitivity<br>reactions:<br>2-Infective endocarditis<br>(IE):<br>3-Diabetes mellitus (DM)<br>4-Thyroid disorders, 5-<br>HIV/AIDS<br>6-Juvenile idiopathic<br>arthritis (JIA)<br>7-Autism Spectrum<br>Disorder (ASD)<br>8-Attention-deficit<br>hyperactivity<br>disorder | A theoretical<br>lesson using<br>Power Point | Short, quarterly,<br>half-year and<br>final exams |
| 8 | v | Orthodontic | Orthodontic Indices  | A theoretical<br>lesson using<br>Power Point | Short, quarterly,<br>half-year and<br>final exams |
| 9 | v | Orthodontic | <u>Vertical Plane Discrepancy<br/>and crossbite:</u>   | A theoretical                                | Short, quarterly,<br>half-year and                |

|    |   |             |   |  |   |
|----|---|-------------|---|--|---|
|    |   |             | a. Deep bite (types, etiology, treatment, skeletal vs. dental)  | lesson using Power Point               | final exams                                 |
| ١٠ | ١ | Orthodontic | b. Open bite (types, etiology, treatment, skeletal vs. dental)  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ١١ | ١ | Orthodontic | c. Cross bite and scissors bite (types, etiology, treatment, skeletal vs. dental)                                 | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ١٢ | ١ | Orthodontic | c. Cross bite and scissors bite (types, etiology, treatment, skeletal vs. dental)                                 | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ١٣ | ١ | Orthodontic | <u>Crowding, spacing, space need:</u><br>a. Types of crowding (primary, secondary and tertiary)                   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ١٤ | ١ | Orthodontic | b. Space analysis (in permanent and mixed dentition, space required and potential space, methods, Bolton's ratio) | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ١٥ | ١ | Orthodontic | c. Space creation (molar distalization, expansion, extraction, incisor proclination, proximal stripping,          | A theoretical lesson using             | Short, quarterly, half-year and             |



|    |   |             |   |  |   |
|----|---|-------------|---|--|---|
|    |   |             | derotation and uprightening)  | Power Point                            | final exams                                 |
| ١٦ | ١ | Orthodontic | d. Closure of spaces (molar protraction, incisor retraction, conservative)  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ١٧ | ١ | Orthodontic | e. Teeth extraction in orthodontics (Types: enforced, therapeutic, Wilkinson, balancing and compensating extractions) (indications, advantages, disadvantages for each tooth)<br><br>f. Serial extraction (definition, indications, procedure, advantages, limitations) | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ١٨ | ١ | Orthodontic | <u>Treatment of common local factors:</u><br><br>Including definition, prevalence, etiology, types, effect on occlusion, and treatment (with emphasis maxillary canine):<br><br>a. Extra-teeth (supernumerary) and missing teeth (hypodontia)                           | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ١٩ | ١ | Orthodontic | b. Early loss of deciduous teeth(space maintainers and space regainers)<br><br>c. Retained deciduous teeth, delayed eruption of permanent teeth, impacted teeth, ankylosis  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٢٠ | ١ | Orthodontic | d. Abnormal eruptive behavior (displacement, transposition)   | A theoretical                          | Short, quarterly,                           |

|    |   |             |  |  |   |
|----|---|-------------|--|--|---|
|    |   |             | e. Large frenum (labial and lingual)   | lesson using Power Point               | half-year and final exams                   |
| ٢١ | ١ | Orthodontic | f. Bad oral habits   | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٢٢ | 1 | Orthodontic | Treatment of general factors:<br>a. Class I treatment (etiology, skeletal and soft tissue pattern, dental factors, bimaxillary proclination, treatment methods and time; new orthodontic approach) | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٢٣ | 1 | Orthodontic | b. Class II div. 1 treatment (etiology, skeletal and soft tissue pattern, dental factors, habits, treatment methods and time)  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٢٤ | 1 | Orthodontic | c. Class II div. 2 treatment (etiology, skeletal and soft tissue pattern, dental factors, treatment methods and time)  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٢٥ | 1 | Orthodontic | d. Class III treatment (etiology, skeletal and soft tissue pattern, dental factors, treatment methods and time)  | A theoretical lesson using Power Point | Short, quarterly, half-year and final exams |
| ٢٦ | 1 | Orthodontic | Treatment of adults<br>Adjunctive orthodontic treatment, Comprehensive orthodontics for adults,  | A theoretical                          | Short, quarterly, half-year and             |

|    |   |             |  |  |  |
|----|---|-------------|--|--|--|
|    |   |             | problems that are specific to adult patients<br><br>Orthodontic management of patients with periodontal disease:   | lesson using<br><br>Power Point                      | final exams  |
| ۲۷ | 1 | Orthodontic | Periodontal problems and orthognathic surgery (presurgical orthodontics, treatment planning, surgical procedures, postsurgical orthodontics); distraction osteogenesis | A theoretical<br><br>lesson using<br><br>Power Point | Short, quarterly, half-year and<br><br>final exams |
| ۲۸ | 1 | Orthodontic | Cleft lip and palate (Embryology, classification, orofacial effects)   | A theoretical<br><br>lesson using<br><br>Power Point | Short, quarterly, half-year and<br><br>final exams |
| ۲۹ | 1 | Orthodontic | Treatment of Cleft lip and palate  | A theoretical<br><br>lesson using<br><br>Power Point | Short, quarterly, half-year and<br><br>final exams |
| ۳۰ | 1 | Orthodontic | <u>Digital orthodontics</u> (digital approach in orthodontic diagnosis and treatment)  | A theoretical<br><br>lesson using<br><br>Power Point | Short, quarterly, half-year and<br><br>final exams |

| 12. Infrastructure  |   |
|---|---|
| 1-Books required reading  | 1 -Contemporary Orthodontics,William R. Proffit Sixth edition<br>2. Textbook of Orthodontics Singh 2007<br>3. Orthodontics; current principles and technique<br>4.Introduction to orthodontic   |
| 2-Main reference sources<br>ii- - Recommended books and references (scientific journals, reports...). |   |
| b-Electronic references, Internet sites...  | The faculty website   |
| <b>13. The development of the curriculum plan</b>   | 1-Development of academic content by deletion, addition and replacement.<br>2-Using modern methods of teaching appropriate to the level of learners from time to time.<br>3-Updating the assessment methods and measuring the level of students.4- Encouraging e-learning.<br>5-Providing the student with the skills required by the dental profession and the changes of the times. |

### *Clinical requirements*

| Item  | Minimum Requirements   | Hours |
|-------|--|-------|
|       | Treatment of one patient:<br>1- Diagnosis :(Mandatory)<br>a- Case sheet filling & presentation<br>b- Upper and lower impression.<br>c-Study models preparation<br>d- Extra & intra oral photographs<br>e- Cephalometric tracing<br>2-Treatment plan:(Mandatory)<br>3- Insertion(Optional)<br>4- Adjustment or Activation(Optional) |       |
| Total | The student should receive at least one orthodontic case to enter the final exam   | 75    |

|   |   |
|---|---|
| <b>1. Educational Institution</b>                 | Ministry of Higher Education and Scientific Research/<br>University of Baghdad  |
| <b>2. University Department/Centre</b>            | College of Dentistry/ Department of Periodontics and<br>Periodontal Surgery   |
| <b>3. The name/code of the Academic Programme</b> | Periodontics / 528 PT   |
| <b>4. Programme included</b>                      | Periodontics (Dentistry)  |
| <b>5. Available Academic Courses</b>              | Student attendance at lectures, clinics and seminars<br>throughout the school year  |
| <b>6. Academic Study System /Year</b>             | Two semesters/ fifth stage  |
| <b>7. Number of hours (total)</b>                 | 75 practical hours and 30 theoretical hours   |
| <b>8. Preparation Date of this Description</b>    | 2021-2022-.   |
| <b>9. Aims of the Academic Programme</b>          | <ol style="list-style-type: none"> <li>1. The main objective of the branch is to increase the health awareness of the health of the citizens' mouth and teeth and to diagnose and treat patients who suffer from periodontal diseases through the preparation of a medical staff of the students who performs this role after their graduation and serve in the health centres, which are spread all over Iraq.</li> <li>2. The educational aspect: By giving lectures, holding scientific seminars and performing advanced surgical operations for training students.</li> <li>3. The therapeutic and preventive aspect: The branch currently covers diagnosis, treatment and follow-up of all pathological conditions related to a periodontal disease referred to the faculty as well as the preventive aspect of this subject.</li> </ol> |

## **10. Programme outputs and teaching, learning and assessment methods**

### **A. Cognitive Objectives (Knowledge and Understanding)**

- A.1 - Formulate information in such a way as to enable students to understand and increase their knowledge regarding the diagnosis and treatment of various periodontal disease.
- A.2 - Giving students instructions on oral and dental care for patients visiting the College of Dentistry.
- A.3 - Students have knowledge of all means of health education of patients for the prevention of periodontal disease.

### **B. Programme Skill Objectives**

- B1. Training students to remove sediments and internal and external discolouration from teeth and gum blading and learn to make some minor surgical interventions
- B2. Giving instructions for oral health care
- B3. Learning the preventive aspect to prevent periodontal disease and to prevent the development of the periodontal disease from getting worse.

### **Methods of Teaching and Learning**

- 1. Data show
- 2. Educational movies
- A3. LCD
- A4. Electronic screens
- A5. Transverse cameras
- A6. Smart boards

### **Assessment Methods**

Perform written, oral and clinical examinations and short exams

### **C. Thinking Skills**

- C1. Student ability to solve problems and have distinctive thinking
- C2. Ability to lead student groups
- C3. Assessing student achievements

### **Methods of Teaching and Learning**

Following up the student thinking, expression and responsiveness methods by using all available ways of learning, such as data show, tutorials, electronic screens and more.

### **Assessment Methods**

Preparation of reports, working and theoretical examinations and grading.

### **D. General and gained skills (other skills related to employability and personal development).**

D.1 - Professional preparation

D.2 - Scientific preparation

D.3 - Cultural preparation

D.4 - Recruitment of skills gained so that the students have become dentists capable of treating patients.

| <b>11. Academic Course Structure</b> |              |                             |   |  |   |
|--------------------------------------|--------------|-----------------------------|---|--|---|
| <b>Week</b>                          | <b>Hours</b> | <b>Academic Course name</b> | <b>Theoretical content</b>                        | <b>Teaching Method</b>                 | <b>Assessment method</b>                          |
| 1                                    | 2            | Periodontics                | Diagnosis & classification of periodontal disease | A theoretical lesson using Power Point | Practical, short, quarterly, half and final exams |
| 3                                    | 1            | Periodontics                | Advance diagnosis                                 | A theoretical lesson using Power Point | Practical, short, quarterly, half and final exams |
| 4                                    | 2            | Periodontics                | Tooth mobility                                    | A theoretical lesson using Power Point | Practical, short, quarterly, half and final exams |
| 6                                    | 2            | Periodontics                | Furcation involvement                             | A theoretical lesson using Power Point | Practical, short, quarterly, half and final exams |
| 8                                    | 2            | Periodontics                | Epidemiology of periodontal disease               | A theoretical lesson using Power Point | Practical, short, quarterly, half and final exams |
| 10                                   | 2            | Periodontics                | Immunopathology                                   | A theoretical lesson using Power Point | Practical, short, quarterly, half and final exams |
| 12                                   | 1            | Periodontics                | Dentin hypersensitivity                           | A theoretical lesson using Power Point | Practical, short, quarterly, half and final exams |
| 13                                   | 1            | Periodontics                | Halitosis   | A theoretical lesson using Power Point | Practical, short, quarterly, half and final exams |
| 14                                   | 2            | Periodontics                | Perio & other aspects of dentistry                | A theoretical lesson using Power Point | Practical, short, quarterly, half and final exams |



| <b>Week</b> | <b>Hours</b> | <b>Academic Course name</b> | <b>Theoretical content</b>                          | <b>Teaching Method</b>                 | <b>Assessment method</b>                          |
|-------------|--------------|-----------------------------|---|--|---|
| 16          | 2            | Periodontics                | Medical compromised patient                         | A theoretical lesson using Power Point | Practical, short, quarterly, half and final exams |
| 18          | 2            | Periodontics                | Periodontal surgery                                 | A theoretical lesson using Power Point | Practical, short, quarterly, half and final exams |
| 20          | 1            | Periodontics                | Laser therapy                                       | A theoretical lesson using Power Point | Practical, short, quarterly, half and final exams |
| 21          | 2            | Periodontics                | Non-surgical periodontal therapy                    | A theoretical lesson using Power Point | Practical, short, quarterly, half and final exams |
| 23          | 1            | Periodontics                | Cross infection                                     | A theoretical lesson using Power Point | Practical, short, quarterly, half and final exams |
| 24          | 1            | Periodontics                | Risk factors in the etiology of periodontal disease | A theoretical lesson using Power Point | Practical, short, quarterly, half and final exams |
| 25          | 1            | Periodontics                | Antibiotics in periodontology                       | A theoretical lesson using Power Point | Practical, short, quarterly, half and final exams |
| 26          | 2            | Periodontics                | Healing & regeneration                              | A theoretical lesson using Power Point | Practical, short, quarterly, half and final exams |
| 28          | 2            | Periodontics                | GTR   | A theoretical lesson using Power Point | Practical, short, quarterly, half and final exams |
| 30          | 1            | Periodontics                | Gingival crevicular fluid                           | A theoretical lesson using Power Point | Practical, short, quarterly, half and final exams |

|   |   |
|---|---|
| <b>12. Infrastructure</b>   |   |
| 1-Books required reading  | Book for Linda 2009 and Crianza 2012<br>Newman and Carranza's Clinical Periodontology thirteen edition  |
| 2-Main reference sources<br>jj- - Recommended books and references (scientific journals, reports...). |   |
| b-Electronic references, Internet sites...  | The faculty website   |
| <b>13. The development of the curriculum plan</b>   | 1-Development of academic content by deletion, addition and replacement.<br>2-Using modern methods of teaching appropriate to the level of learners from time to time.<br>3-Updating the assessment methods and measuring the level of students.<br>4- Encouraging e-learning.<br>5-Providing the student with the skills required by the dental profession and the changes of the times. |

| <b>5<sup>th</sup> year clinical requirement</b> | <b>Type of treatment</b>   |
|---|--|
|   | Motivation and instruction   |
| 2.5h\week                                       | Scoring Plaque & Gingival indices, pocket depth, bleeding on probing.<br>Min = 20, Max =25 |
| 75 h\year                                       | Scaling Min = 12, Max = 20 per patient   |
|   | Root planning Min= 6, Max= 12 teeth  |
|   | Seminar presentation=2   |
|   | Surgery =1   |
|   | Maintenance per each case  |