



Beni-Suef University
Faculty of Dentistry
Quality Assurance Unit



Course Specification

University: **Beni-Suef**

Faculty: **Dentistry**

Course Title: **Oral Histology**

Course code: **Doh3**

Program on which the course is given: **Bachelor degree of dentistry, graduate program.**

Department offering the course: **Oral Biology**

Academic year: **2023-2024 , 2nd year**

Date of specification approval: **September 2023**

A-Basic Information

| | |
|--|--------------------------------------|
| Academic Year: | 2023-2024 |
| Course Code: | Doh3 |
| Course Theoretical (contact hours): | 2h |
| Practical (contact hours) | 2h |
| Total Hours: - | 4h |
| Prerequisite if present: | Dental anatomy and General histology |

B-Professional Information

1- Overall aims of course

by the end of the course, the student must be able to:

- Identify cells, and tissues of the oral cavity.
- Integrate physiological data & mechanisms and their clinical applications and differentiate different dental and para-dental tissues.
- Manipulate with microscope properly.

2-Intended learning outcomes of the course (ILOs)

a. Knowledge and Understanding:

- a1- Illustrate the structure and derivatives of branchial arches.

a2-Describe the steps of normal development of the nervous system, face, palate, tongue, and growth of the maxilla and mandible.

a3- Describe the histological and morphological structure of tooth developmental stages.

a4- Describe the histological structure of dental and paradental tissues.

a5- Mention the physical and chemical properties and unit structure of normal Enamel, Dentin, pulp, and Cementum.

a6- Describe Amelogenesis, Dentinogenesis and cementogenesis

a7- Describe different stages of teeth active and passive eruption and its shedding.

a8- Describe macro and micro anatomy of maxillary sinus, Tempromandibular joint, condylar movement and its clinical consideration.

b-Intellectual Skills:

b1- Differentiate between normal and abnormal development of nervous system, tongue, and face.

b2- Distinguish histological features of different stages of tooth development and its function and abnormalities.

b3- Evaluate age changes of dental and para dental tissues.

b4- Distinguish histological structure of different types of dental tissues (enamel, dentine, cementum) and para dental tissues (periodontal tissues, bone and alveolar process, oral mucosa and salivary gland).

b5- Classify the histological structure of oral mucosa and salivary glands

b6- Compare between different stages of tooth eruption and shedding.

b7- Correlate macro anatomy of maxillary sinus and Tempromandibular joint and their clinical application.

c- Professional and Practical Skills:

c1- Perform labeled diagrams of different stages of teeth development, Enamel, Dentine and Cementum.

c2- Perform labeled diagrams of Pulp and Periodontal ligament.

c3- Perform labeled diagrams of bone and alveolar process.

c4- Perform labeled diagrams of Mucous Membrane, Salivary Glands and maxillary sinus.

c5- Perform labeled diagrams of Tempromandibular joint components.

c6 – Use the light microscope properly.

d-General and Transferable Skills:

d1- Communicate with internet in research.

d2- Communicate with each other as a part of teamwork.

d3- Explain how to Use properly the equipment's in the manipulation.

d4- Write a report with a team.

d5- Improve presentation skills.

d6- Improve writing and speaking skills.

3. Contents:

| Topic | Lecturer | No. of lectures | No. of practical | Total Hours | Weighing of the topic | ILOs covered by this topic | Teaching method | Assessment methods |
|---|--------------------|-----------------|------------------|-------------|-----------------------|--|---|---|
| Embryology | Dr. Dalia Riad | 3 | 3 | 12 | 11.1% | A1, a2, b1, c6, d1, d2, d6 | -Lectures -Discussions during the lecture -Clinical photos and videos to illustrate subject -Practical sessions using light microscope | -All students will have an opportunity to personally interact and respond to answer questions during sessions -Quiz -Assignments in form of self-evaluated questions included at the end of chapter |
| Tooth development | Dr. Mohamed Yehia | 3 | 3 | 12 | 11.1% | A3, b2, c1, c6, d2 | | |
| Enamel | Dr. Omayma Mohamed | 3 | 3 | 12 | 11.1% | A4, a5, a6, b3, b4, c1, c6, d2 | | |
| Dentin (2 of them online) | Dr. Dalia Riad | 3 | 3 | 12 | 11.1% | A4, a5, a6, b3, b4, c1, c6, d2 | | |
| Cementum (online) | Dr. Mohamed Yehia | 1 | 1 | 4 | 3.7% | A4, a5, a6, b3, b4, c1, c6, d2 | | |
| Pulp | Dr. Mohamed Yehia | 1 | 1 | 4 | 3.7% | A4, a5, b3, c2, c6, d2 | | |
| Periodontal ligament | Dr. Omayma Mohamed | 1 | 1 | 4 | 3.7% | a4, b3, b4, c2, c6, d2 | | |
| Bone and alveolar process | Dr. Mohamed Yehia | 2 | 2 | 8 | 7.4% | a4, b3, b4, c3, c6, d2 | | |
| Oral mucosa+ Dento-gingival junction (3 of them online) | Dr. Dalia Riad | 4 | 4 | 16 | 14.9% | a4, a7, b3, b4, b5, c4, c6, d2, d5, d6 | | |
| Salivary glands +Saliva | Dr. Asmaa Fouad | 2 | 2 | 8 | 7.4% | a4, b3, b4, b5, c4, c6, d2 | | |
| Eruption | Dr. Mohamed Yehia | 1 | 1 | 4 | 3.7% | a7, b6, c6, d2 | | |
| Shedding | Dr. Mohamed Yehia | 1 | 1 | 4 | 3.7% | a7, b6, c6, d2 | | |
| Temporo-mandibular joint | Dr. Omayma Mohamed | 1 | 1 | 4 | 3.7% | a8, b7, c5, c6, d2 | | |
| Maxillary sinus | Dr. Omayma Mohamed | 1 | 1 | 4 | 3.7% | a8, b7, c4, c6, d2 | | |

4- Teaching and Learning Methods

4.a Interactive lecture

4.b Demonstrations.

4.c Open discussion.

4.d Online sessions and Activities.

5- Student Assessment Methods

- Periodic evaluation

- Practical

- Oral exam.

- Final written exam.

5-A Assessment Schedule

| <i>Assessment</i> | Final Written | Practical exam | Oral exam | Periodic evaluations |
|-------------------|----------------------|-----------------------|------------------|-----------------------------|
| | June 2024 | 27 th week | June 2024 | 4 th week |
| | | | | 8 th week |
| | | | | 12 th week |
| | | | | 17 th week |
| | | | | 20 th week |
| | | | | 24 th week |

5-B Weighting of Assessments

| | Written | Practical | Oral Exam | Year work | Total |
|------------------|----------------|------------------|------------------|------------------|--------------|
| Mark | 80 | 20 | 20 | 30 | 150 |
| Weighting | 53.3% | 13.3% | 13.3% | 20% | 100% |

6- List of references:

-Lecture data available in the university's e-book platform

-Recommended textbook:

1-Ten Cate's Oral Histology: Development, Structure, and Function. St. Louis, Mo: Mosby, 9th edition, 2018. Print.

2-Orban's Oral Histology and Embryology. St. Louis: Mosby Yearbook, Print. Turabian (15th ed.), 2019.

7-Facilities Required for Teaching and Learning

Smart boards and fully equipped histological lap.

Course Coordinator:

Dr. Dalia Riad

Head of Department:

Prof. Ahmed Nabil Fahmy

Date: September 2023

