(Dental Anatomy) Course Catalogue

2024-2025

College	**Erbil medical technical institute**	
Department	**dental assistant department**	
Module Name	**Dental Anatomy**	
Module Code	**DEA105**	
Semester	**1**	
Credit	**7**	
Module type	**Prerequisite, Core, Aissist.**	
Weekly hours		
Weekly hours (Theory)	**(2)hr Class**	**(24)hr Workload**
Weekly hours (Practical)	**(3)hr Class**	**(36)hr Workload**
Lecturer (Theory)	**Aso Muhammed Abdulkareem**	
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Lecturer (Practical)	**Aso Muhammed Abdulkareem**	
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Course Book

- **Course overview:**

The aim of the teaching in anatomy is for the dental assistant student to acquire knowledge in normal anatomical structure of the body and its various cells and tissues and organ systems. The main focus is on the tooth anatomy, anatomy of the head and neck region.

The central goal of the Structure of the Human Body course is to provide students with a firm understanding of the general anatomy and development of the human body, including the osteology, musculature, circulatory system, masticatory system and the human nervous system, salivary glands, in head and neck area, This will be achieved through student dissection, and models, medical imaging, lecture, guided review sessions, and self-directed learning

The teaching in dental anatomy covers tooth anatomy, general anatomy, and anatomy of the head and neck. In cell biology and general anatomy there will be a general introduction to the body structure, the cell structure, organization of cells into tissues, and composition of tissues to organs and body parts. In tooth anatomy it will be given a detailed introduction to the compartments of the masticatory apparatus, and structure and special shape of the teeth in the deciduous and permanent dentitions, with different nomenclature systems universal, FDI, palmer systems.

- **Course objective:**

- Recognize the essential terminology necessary to properly describe the fundamental relationships and orientation of structures in the human head .
- Identify the osteology of the human skeleton in both the gross specimen.
- Differentiate the muscles of the human head, and the function of each muscle when contracted.
- List the components of the masticatory system, including the tongue, tooth, muscle of mastication's, muscle of floor of mouth.
- Discuss the structural organisation and functions of each system of the human head.
- The normal structures of dental and oral tissues.
- The normal morphology of the human teeth.
- The normal development of teeth, their eruption and exfoliation as well as the most common congenital malformations of the face.
- The most used nomenclature system for human teeth.

- **Student's obligation**

- Demonstrate professional behaviour by completing all course requirements, including course evaluations, in a timely manner.

- Demonstrate responsibility and accountability by attending and being punctual at all required course activities such as laboratory sessions, blessing ceremonies, and exams.

Demonstrate professional behaviour by requesting any excused absence from required course activities well ahead of the scheduled date

- **Forms of teaching**

- Classroom lectures
- Demonstrations
- Tests and exams
- Review for exams
- Textbook reading assignments

Using: data show, white board, videos , pre lecture printed paper including all lecture information's, using anatomical models , 3D applications available wither on PC or smart phones.

- **Assessment scheme**

6% Mid. Theory exam
10% Mid. practical exam
4% Quiz
40% Activity
25% final practical
15% final theory

- **Specific learning outcome:**

- Identify and name human deciduous and permanent teeth using the most used nomenclature system for human teeth. Practice on using different dental notation systems for both dentitions and to understand the concept of dental formula as a summary for mammalian dentitions Know the different external anatomical features and landmarks on teeth and their functions
- Learn the detailed anatomy of all deciduous and permanent teeth and their pulpal systems.
- Recognize different anatomical parts of human head and neck.
- Communicate within the health team by using anatomical concepts and definition
- Necessary anatomical information's for further academic study in dental filled.

- **Course Reading List and References:**

1. Human Anatomy (9th Edition) 9th Edition **by Frederic H. Martini**
2. Atlas of Human Anatomy: Including Student Consult Interactive Ancillaries and Guides (Netter Basic Science) 6th Edition **by Frank H. Netter MD**
3. The Human Body Book (2nd Edition): An Illustrated Guide to Its Structure, Function, and Disorders Expanded, Updated Edition **by Steve Parker**
4. Woelfels Dental Anatomy Ninth Edition **by Rickne C. Scheid DDS**
5. Woelfel's Dental Anatomy: Its Relevance to Dentistry Eighth Edition **by Rickne C. Scheid DDS**

MEd

6. Wheeler's Dental Anatomy, Physiology and Occlusion 10th Edition **by Stanley J. Nelson DDS MS**
7. https://www.innerbody.com/htm/body.html
8. https://www.visiblebody.com/anatomy-and-physiology-apps/human-anatomy-atlas
9. **http://www.anomalousmedical.com/Articles/3DDentalAnatomy**

- **Course topics (Theory)**	**Week**	**Learning Outcome**
Introduction, Body directions	**1**	An introduction to anatomy since and learning essential terminology, and body directions
Bones & Skull bone	**2**	Understanding the bony structure of human head, and its parts
Muscular System & Muscles of Facial Expression	**3**	Studying Muscle of face, tongue , muscle of mastication, muscle of floor of mouth
The Temporomandibular Joint , Salivary glands & saliva	**4**	Introduction to types of joints in human body, TMJ structure
Nerves, Innervations of Oral Cavity	**5**	Understanding The nerves responsible of innervations of oral cavity
Human dentition and tooth numbering systems	**6**	Introduction to tooth numbering systems : palmer , universal, FDI
Macro & Micro anatomy of the teeth	**7**	Learning Tooth morphology and surfaces
Maxillary incisors	**8**	Anatomical feature of maxillary incisors
Maxillary canine	**9**	Anatomical feature of maxillary canine
Mandibular Incisors	**10**	Anatomical feature of mandibular incisors
Mandibular canine	**11**	Anatomical feature of maxillary canine
Molars & Pre molars	**12**	General features of molars and premolars
- **Practical Topics (If there is any)**	**Week**	**Learning Outcome**
Introduction, Body directions	**1**	Examples on directions and its usage in anatomy
Bones & Skull bone	**2**	Recognizing each single bone of head

Muscular System & Muscles of Facial Expression	**3**	Recognizing different muscles and their names
The Temporomandibular Joint , Salivary glands & saliva	**4**	The TMJ components
Nerves, Innervations of Oral Cavity	**5**	The trigeminal nerve and its components
Human dentition and tooth numbering systems	**6**	Palmer, Universal, FDI systems
Macro & Micro anatomy of the teeth	**7**	Tooth morphology in general
Maxillary incisors	**8**	Details of anatomy of maxillary incisors from different views
Maxillary canine	**9**	Details of anatomy of maxillary canine from different views
Mandibular Incisors	**10**	Details of anatomy of mandibular incisors from different views
Mandibular canine	**11**	Details of anatomy of mandibular canine from different views
Molars & Pre molars	**12**	General features of premolar and molars

- **Examinations (question design):**

1. Compositional: **Q/** innumerate skull bones, and group them if they have any!
9 Cranial Bones group: Ethmoid, Frontal, Occipital, Sphenoid, Parietal, Temporal.
14 Facial Bones group: Vomer, Mandible, Lacrimal, Maxilla, Nasal, Palatine, Inferior Nasal concha, Zygomatic

2.True or false type of exams:

Vomer and mandible are the only single bones from the facial bones group ..... ***(True)***

3. Multiple choices:
Q/ Central nervous system (CNS) is made up of:
A- Spinal Cord **B**- 31 pair of spinal nerves. **C-** 12 pair of cranial nerves. **D- Brain, Spinal cord.**

- **Extra notes:**

A better learning objective will be achieved through demonstrations using prosected cadavers, anatomical models if available.

- **External Evaluator**

من د.شاهده رسول پزیشکی ددان و پسپۆری بواری نەخوشیەکانی بووك (مامۆستا) لە هەمان بەش چاوم خشاند بەم کوریکولەمەدا هەستم بەوە کرد کە بابەتەکان لە کەل ناوەر ۆکەکان لیکەوە نزیکن و بە باشی مافی بابەتەکە دراوە