

**University of Jordan**  
**Faculty of Dentistry**  
**Department of Conservative Dentistry**  
**Dental Anatomy (Practical)**

**Course Title:** Dental Anatomy (Practical)

**Course Code:** 1302104

**Prerequisite:** None

**Course Coordinator:** Dr Firas Alsoleihat

**Instructor:**

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**Year:** 1<sup>st</sup> year- Second Semester

**Credit:** 1 credit hour

**Prerequisite for:** fields of dental practice particularly Prosthodontics & Conservative Dentistry

**Course Objectives:**

This course delineates the fundamentals of functional tooth form through drawings and carvings. It clearly pinpoints the critical landmarks--particularly those of posterior teeth. Models of the eight typical tooth forms are used to demonstrate the differential anatomy of individual teeth. Detailed instructions are offered on drawing teeth to scale and on carving them in wax.

Therefore, this course provides the following objectives:

- Demonstration of drawings of the right maxillary and mandibular permanent teeth from the mesial, occlusal, distal, lingual and buccal views.
- The evaluation of contours of simulated dental restorations in relation to ideal arch form.
- Thorough discussion of the evaluation of temporomandibular joint and muscle disorders including anatomical illustrations of the nerves and muscles of the head and neck region.
- Dimensions of teeth from all aspects in relation to space and arch size.
- Detailed descriptions and illustrated morphologic features of usual teeth essential for learning biologic variation of tooth morphology.

- Demonstration of radiographs and pulp chamber and canal morphology in sectioned teeth provide an excellent reference for root canal therapy.
- Histological description with slide demonstrations that covers all micro-morphological landmarks.

### **Learning Outcomes:**

Successful completion of this module should lead to the following learning outcomes:

#### **A. Knowledge and Understanding (student should)**

A1) Be able to describe and draw root and crown contours in order to properly adapt instruments required to clean these surfaces.

A2) Be able to describe and differentiate histological tooth sections.

#### **B. Intellectual skills - with ability to**

B1) Identify and differentiate each type of tooth

B2) Employ definitive shifts in modern dental practice

#### **C. Subject specific skills – with ability to**

C1) Reproduce acceptable tooth contours as required when eventually finishing and polishing, or placing restorations.

C2) Communicate with the instructors, peers, and patients using understandable terminology and sketches when appropriate.

#### **D. Transferable skills – with ability to**

D1) Strike the balance between self-reliance and seeking help when necessary.

D2) Display an integrated approach to the deployment of communication skills.

### **Teaching methods:**

- Duration: 16 weeks, 16 hours in total
- Practical session: 15 + one exam

### **Modes of assessment:**

- Weekly achieved sketches and carvings: 60 points
- Final Exam: 40 points

### Attendance policy:

Laboratory practice attendance is obligatory. The handout and recommended atlas are not comprehensive and additional material will be covered.

**Expected workload:** an average of studying time from 3 to 4 hours per week should be expected.

### Course Content & Weight:

1.	<b>Introduction Tooth Drawing, Tooth Carving</b>
2.	<b>Drawing of Maxillary Central Incisor</b>
3.	<b>Drawing &amp; Carving of Maxillary Central Incisor</b>
4.	<b>Carving of Maxillary Central Incisor</b>
5.	<b>Drawing &amp; Carving of Maxillary Canine</b>
6.	<b>Carving of Maxillary Canine</b>
7.	<b>Drawing of Maxillary &amp; Mandibular First Premolars</b>
8.	<b>Carving of Maxillary First Premolar</b>
9.	<b>Carving of Mandibular First Premolar</b>
10.	<b>Carving of Maxillary First Molar I</b>
11.	<b>Carving of Maxillary First Molar II</b>
12.	<b>Carving of Mandibular First Molar I</b>
13.	<b>Carving of Mandibular First Molar II</b>
14.	<b>Tooth Identification</b>
15.	<b>Tooth Identification</b>
16.	<b>Carving Exam</b>

### References and Supporting Material:

1. **Wheeler's Dental Anatomy, Physiology, and Occlusion;** by Major M Ash & Stanley J Nelson, 9<sup>th</sup> edition, W. B. Saunders, 2009.
2. **Dental Anatomy It's Relevance to Dentistry;** by Julian B Woelfel & Rickne C Scheid, 6<sup>th</sup> edition, Williams & Wilkins, 2001.
3. **Wheeler's Atlas of Tooth Form;** by Major M Ash, W. B. Saunders, 1984.
4. **Orban's Oral Histology and Embryology;** by Bhaskar S N, 11<sup>th</sup> edition, Mosby 1991.
5. **Dental Morphology by Van Beek G,** 2nd edition 1983, Butterworth-Heinemann
6. **Nature's Morphology: An Atlas of Tooth Shape and Form,** Shigeo Kataoka, Yoshimi Nishimura and Avishai Sadan, Quintessence Publishing (IL); 1 edition 2002
7. **Dental Functional Morphology: How Teeth Work** (Cambridge Studies in Biological & Evolutionary Anthropology), Peter W Lucas, Cambridge University Press; 1 edition 2004

