

1	Course title	Craniofacial Growth and development-1303775
2	Course number	
3	Credit hours (theory)	1
	Contact hours (theory)	1
4	Prerequisites/corequisites	none
5	Program title	MSc Paediatric Dentistry
6	Program code	
7	Awarding institution	University of Jordan
8	School	Dentistry
9	Department	Orthodontics & Paediatric Dentistry
10	Level of course	Postgraduate
11	Year of study and semester (s)	1 st year, 1 st semester
12	Final Qualification	MSc
13	Other department (s) involved in teaching the course	Oral surgery Dep. Faculty of Medicine
14	Language of Instruction	English
15	Date of production/revision	18-1-2018

16. Course Coordinator:

Office numbers, office hours, phone numbers, and email addresses should be listed.

Prof. Zaid Al-Bitar

Phone: ext. 23520

Email: z.bitar@ju.edu.jo

Office hours: Sunday 10-11, Wednesday 10-12

17. Other instructors:

Prof. Ahmad Hamdan

Dr. Serene Badran

Dr. Firas Alsulihat

Dr. Radwan Bani Mustafa (Faculty of Medicine)

Dr. Bilal Al Azab (Faculty of Medicine)

18. Course Description:

This course offers a clinically relevant understanding of craniofacial growth and development and common craniofacial growth anomalies and syndromes.

19. Course aims and outcomes:**A- Aims:**

1. Understand basic principles of craniofacial growth and development.
2. Understand the process of development of dentition and occlusion.
3. Understand the basics of psychological development of children.
4. Differentiate between the main patterns of inheritance.
5. Understand the basic principles of inheritance of craniofacial disorders and syndromes.
6. Understand bases of speech and language development

B- Intended Learning Outcomes (ILOs): Upon successful completion of this course students will be able to

1. **Knowledge and understanding:** fully understand the development of craniofacial skeletal system, development of dentition, development of occlusion, psychological development of children and common craniofacial syndromes.
2. **Intellectual skills, with ability to:**
 - a. Recognise features of normal craniofacial and occlusal growth patterns.
 - b. Recognize features of common craniofacial syndromes and their genetic basis.

20. Topic Outline and Schedule:

Week	Topic	Instructor	Achieved ILOs	Evaluation Methods	Reference
1	Dr. Firas Slehat	Oral embryology	Understand the basics of embryological development of oral structures		25
2	Dr. Firas Slehat	Oral embryology	Understand the basics of embryological development of oral structures		25
3	Prof. A. Hamdan	General principles of growth and	Understand the basic principles		25

		development	of development and growth of craniofacial structures.		
4	Dr. Radwan Bani Mustafa (Faculty of Medicine)	General principles of growth and development 2	1. Understand the main stages of psychological development of children 2. clinical relevance to paediatric dentistry patients.		25
5	Dr. Serene Badran	General principles of craniofacial growth and development 3	III.1. Cranial growth III.2. Nasomaxillary growth III.3. Mandibular growth III.4. Regulation of craniofacial growth III.5. Normal variation III.6. Modification of the pattern of craniofacial growth		25
6	Dr. Firas Slehat	Tooth development	The histological stages of tooth development.		25
7	Prof. Zaid	Occlusal development	-stages of occlusal development. - normal feature of each developmental stage.		25
8	Dr. Bilal Al Azab)	Speech and language	1. Differentia		

		development			
9	Dr. Bilal Al Azab	Congenital genetic disorders and syndromes	te between the main patterns of inheritance. 2. Understand the basic principles of multifactorial inheritance. 3. Understand nontraditional inheritance 4. Understand the basic principles of chromosomal disorders. 5. Understand genetic bases of congenital genetic disorders and syndromes and Speech and language development		25
10	Dr. Bilal Al Azab	Congenital genetic disorders and syndromes			
11	Dr. Bilal Al Azab	Congenital genetic disorders and syndromes			
12	Dr. Bilal Al Azab	Congenital genetic disorders and syndromes			
13	Dr. Bilal Al Azab	Congenital genetic disorders and syndromes			
14	Dr. Bilal Al Azab	Congenital genetic disorders and syndromes			

21. Teaching Methods and Assignments:

Development of ILOs is promoted through the following teaching and learning methods:

22. Evaluation Methods and Course Requirements:

- a. Student participation in seminars: 10 marks.
- b. Mid-term exam: 40 marks MCQs or essays
- c. Final exam: 50 marks MCQs or essays

23. Course Policies:

A- Attendance policies:

Lecture attendance is obligatory. Students are not allowed to attend final exam if they exceed the permitted percentage set in the UJ's regulations.

B- Absences from exams and handing in assignments on time:

The student will be allowed to set for a make-up exam (usually essay) if he/she did not attend the exam due to an acceptable excuse and the excuse was presented in due time as set in the UJ's regulations.

C- Health and safety procedures:

No special recommendations.

D- Honesty policy regarding cheating, plagiarism, misbehavior:

Cheating is considered an unacceptable behavior in exams and a reason for unsuccessful course result. Please refer for your **Student Guide** book for detailed regulations.

E- Grading policy:

F- Available university services that support achievement in the course:

Students can utilize UJ's medical or main library facilities. In addition, they can access e-journals and e-books within campus. A lot of other facilities and support can be provided through the Deanship of Student Affairs.

24. Required equipment: (Facilities, Tools, Labs, Training....)

None special

25. References:

Suggested text book:

- **An Introduction to Orthodontics.** L. Mitchell, N.E. Carter (2013) 4th edition. . Oxford University Press.

• **Contemporary Orthodontics.** W.R. Proffit (2012) 5th edition. Mosby Year Book.

• **Interceptive orthodontics:** A. Richardson (199), 4th edition. BDJ Books

Lecturers will be providing additional updated articles and references for each topic.

- **Thompson & Thompson Genetics in Medicine,** 8e (Thompson and Thompson Genetics in Medicine) 8th Edition, by Robert L. Nussbaum , Roderick R. McInnes), Huntington F Willard. Elsevier; 8 edition, 2015.

26. Additional information:

Name of Course Coordinator: -----Signature: ----- Date: -----

Head of curriculum committee/Department: ----- Signature: -----

Head of Department: ----- Signature: -----

Head of curriculum committee/Faculty: ----- Signature: -----

Dean: ----- -Signature: -----