

1	Course title	Orthodontics Practical-1
2	Course number	1303474
3	Credit hours (theory, practical)	0.5 credit hour practical
	Contact hours (theory, practical)	32 contact hours practical (2hours every other week)
4	Prerequisites/corequisites	None
5	Program title	Doctor of Dental Surgery (DDS)
6	Program code	NA
7	Awarding institution	The University of Jordan
8	Faculty	Faculty of Dentistry
9	Department	Pediatric dentistry, orthodontics and preventive dentistry
10	Level of course	Bachelor
11	Year of study and semester (s)	4th year – First and second semesters
12	Final Qualification	DDS
13	Other department (s) involved in teaching the course	None
14	Language of Instruction	English
15	Date of production/revision	sep. 2019

16. Course Coordinator:

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18. Course Description:

This course is taught during the first and second semester of the 4th year. The aim of the course is to enable the students to demonstrate the basic principles of orthodontic wire bending and develop the manual dexterity and skills involved in wire bending. Later in the second semester, students will be able to understand the basic principle of removable, fixed and functional orthodontic appliances.

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2. 19. Course aims and outcomes:
- 3.

A- Aims:

This course aims to provide the students with the manual skills to fabricate and activate the various components of the removable appliances. It also helps the students to establish a connection between the theoretical and practical information through an interactive presentation of the clinical cases.

B- Intended Learning Outcomes (ILO's): upon successful completion of this course, students will be able to

- 1) Develop the manual skills of wire bending.
- 2) Understand the various components of orthodontic removable appliances.

- 3) Activate and adjust various components of the removable appliances.
- 4) Trace cephalometric radiograph and write a cephalometric report.
- 5) Understand the mode of action of the functional appliances.
- 6) Place and remove orthodontic archwires.
- 7) Perform different methods of space analysis.

20. Topic Outline and Schedule:

First semester 2019 – 2020

Topic	Date	Week	Requirements	Evaluation method	Reference
Wire Bending Exercises.	22-9-19	1-2	Hand in two pieces of bent wires (angles + coils).	Feedback will be given to the students without any marks	The lab manual
URA retentive components Adams demonstration	6-10-19	3-4	Students should start the construction of the Adams clasp	Feedback will be given on the Adams clasp they start to do.	The lab manual and the references specified in theoretical courses
Adams Clasp Fabrication-1	20-10-19	5-6	Hand in Adams clasp on the upper right 6	The Adam's clasp they handed in at the end of each session will be marked by the supervisors	The lab manual and the references specified in theoretical courses
Adams Clasp Fabrication-2	3-11-19	7-8	Hand in Adams clasp on the upper left 6	The Adam's clasp they handed in at the end of each session will be marked by the supervisors	The lab manual and the references specified in theoretical courses
URA active components Z-spring fabrication	17-11-19	9-10	Hand in one Z-spring	The Z-spring will be marked by the supervisors	The lab manual and the references specified in theoretical courses
PFS	1-12-19	11-12	Hand in PFS on the upper Left central incisor	The PFS will be marked by the supervisors	The lab manual and the references specified in theoretical courses
Other URA components: southend clasp, Robert's retractor, BCR	15-12-19	13-14			The lab manual and the references specified in theoretical courses

Second semester 2019 – 2020

Topic	Week	Instructor	Achieved ILO's	Requirements	Evaluation method	Reference
URA design for different clinical cases	1,2	Assigned as per schedule	1,2,3	Fill URA lab form	The supervisor will mark lab sheets with URA designs on the given scenario	The lab manual and the references specified in theoretical courses.
Functional appliances (Twin block and MOA): indications and designs	3,4	Assigned as per schedule	5			The lab manual and the references specified in theoretical courses
Lateral ceph tracing: identification of points and planes	5-6	Assigned as per schedule	4	Identification of the points and planes on the lateral ceph	The Supervisor will place the x-ray on the viewing box and ask the students to identify and define different points and planes	The lab manual and the references specified in theoretical courses
Lateral ceph tracing- Interpretation of the Cephalometric values and complete the report	7-8	Assigned as per schedule	4	Hand in full tracing And table of values	The supervisor will mark the report	The lab manual and the references specified in theoretical courses
Provision of space and space analysis	9-10	Assigned as per schedule	7	Hand in space analysis report	The supervisor will mark the report	The lab manual and the references specified in theoretical courses
Provision of space and space analysis	11-12	Assigned as per	7	Hand in space analysis report	The supervisor will mark the report	The lab manual and the

		schedule				references specified in theoretical courses
revision	13-14	Assigned as per schedule				
Exam	15-16				Space analysis Adams clasp Z-spring	

21. Teaching Methods and Assignments:

Duration: 32 weeks (2 exam weeks + 30 teaching weeks)= (60 teaching hours in total).

Practical Sessions: 1 session of 2 hours every 2 weeks over 30 weeks.

The lab exercise will be video taped and posted on the e-learning website. It's the students' responsibility to watch the demonstration online. Questions will be allowed at the beginning of the lab.

22. Evaluation Methods and Course Requirements:

1- during the year the students will be evaluated through (60 % of the final mark):

- The wire bending exercise they handed in at the end of each session. The supervisors will mark this: two Adams clasp construction and adjustment (5 marks for the first one and 10 marks for the second one), z-spring construction and activation (5marks), PFS (5 marks).
- Quizzes (5 marks /semester)
- URA design (5 marks).
- The Cephalometricanalysis reports (10 marks).
- Space analysis report (10 marks).

2- the final exam will account for 40% of the final mark.It will include:

- Construction of Adams clasp (18 marks).
- Lateral ceph point identification (15 marks).
- Space analysis report (7 marks).

Course work requirements:

1. Hand in two full Adams clasp
2. Hand in Z-spring.
3. Hand in PFS.
4. Hand in full lateral cephalometric tracing and report.
5. Hand in report on space analysis.

Competencies:

1. Fabrication of Adams Clasp and Z-spring.
2. Adjustment and activation of Adams clasp and Z-spring.
3. Lateral cephalometric tracing and report.
4. Space analysis report

23. Course Policies:

A- Attendance policies: Students are allowed 15% absence according to the laws of the university. This stands for 2 clinics for 5th year students in the Orthodontic practical course.

B- Absences from exams and handing in assignments on time: Any student who comes late to the lab will lose the marks of the quiz of that lab.

C- Health and safety procedures: students should adhere to all the stated rules and regulations regarding safety, cross infection control and patient care.

D- Honesty policy regarding cheating, plagiarism, misbehaviour: students should adhere to all the stated rules and regulations regarding professional conduct.

24. Required equipment:

- Protective eye glasses
- Marker (preferably a wax tip pencil to mark on the wire, ordinary lead pencils could be used but the mark is difficult to see)
- Adam's Universal pliers (has two square tips)
- Spring forming pliers (has one square and one round tip)

25. References:

Suggested text book:

- Removable Orthodontic Appliances, 1st edition by K. G. Isaacson FDS MOrthRCS(Eng) , R. T. Reed BDS FDS MOrth RCS(Eng) RCPS(Glas) , John D. Muir BDS FDS MOrth RCS(Eng).
- Orthodontic Retainers and Removable Appliances: Principles of Design and Use by Friedy Luther and Zararna Nelson-Moon.

Name of Course Coordinator: Dr.Abedalrahman Shqaidef –Signature: ----- Date: sep/2019

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

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

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

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