

Course Syllabus

1	Course title	Occlusion
2	Course number	1302303
3	• Credit hours (theory, practical)	One credit hour (theory)
	• Contact hours (theory, practical)	One hour/week
4	Prerequisites/corequisites	Considered essential for all other courses in conservative and Prosthetic Dentistry
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	Department of Conservative Dentistry
10	Level of course	Bachelor
11	Year of study and semester (s)	Third year, Second semester. 2019-2020
12	Final Qualification	DDS
13	Other department (s) involved in teaching the course	None
14	Language of Instruction	English
15	Date of production/revision	

16. Course Coordinator:

Name: Dr.Alaa Haddad
Office hours: Wednesday 11--1 pm
Email:

17. Other instructors:

Name	Office number	Office hours	phone	email
Dr.Alaa Sabra	Faculty of Dentistry, r216		23552	sabralolo@yahoo.com
Dr.Ayah alasmara			23552	Dr.ayahalasmara@yahoo.com
Dr.Susan Hattar			23552	

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18. Course Description:

Occlusion has been defined as the relationship between the teeth as components of the masticatory system in normal function, dysfunction, and parafunction. A general and complete description of the dental anatomy, physiology and occlusion has been viewed in a previous course during the first year of DDS program. In this course students will be introduced to the morphology, anatomy, histology, physiology, pathology, and the therapeutics of the jaws or masticatory system and the teeth as they relate to the health of the whole body, including applicable diagnostic, therapeutic, and rehabilitation procedures.

19. Course aims and outcomes:

• **A-- Aims:**

1. To give the student a full and comprehensive idea of the fundamentals of occlusion in all its aspects, static or dynamic, normal or pathologic.
2. Spans the biological, biomechanical and physiological aspects of occlusion.
3. To give the student an idea about static and dynamic relations that exist between the maxilla and mandible as well as the mechanisms of mandibular motion.
4. To give the student an idea of the normal tooth to tooth relationships, in other words the various occlusal schemes.
5. To give the student a full description and understanding of the anatomy as well as function of the temporomandibular joint TMJ (i.e. muscles involved, motion, anatomy etc.). In addition special attention is given to the clinical examination of the system as well as the signs and symptoms occurring in cases of TMJ disorders.
6. To give the student an illustration of the scientific basis for the use of articulators and face bow registration to help in the diagnostic evaluation of occlusion and treatment planning.

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

A. Knowledge and Understanding:

- A1) Full analysis and evaluation of the occlusal status as well as TMJ condition in order to conduct some occlusal modification such as selective grinding when required before any treatment.
- A2) Comprehensive understanding of the mandibular movements, jaw relationships as well as occlusal harmony. In addition to the uses of articulators as a diagnostic device.

B. Intellectual Skills:

- B1) Ability to investigate and evaluate the actual occlusal scheme of the patient, as well as the state of his TMJ in the purpose of detecting any pathological or abnormal condition prior to treatment.

C. Subject--Specific Skills:

- C1) Ability to mount and record occlusal relationships of a patient with the help of face bow and articulators for the purpose of evaluation and eventual treatment.
- C2) To be able with further knowledge to develop an appreciation of the occlusion, and to acquire skills to diagnose and to treat simple occlusal disharmonies

D. Transferable Skills:

- D1) Since the fundamental aspects of occlusion play an important role in all other disciplines in dentistry, this course enables the student in the decision making to establish a biologically based prosthodontic treatment plan and goals

20. Topic Outline and Schedule:

Topic	Week	Instructor	Achieved ILOs	Evaluation Methods	Reference
Anatomic determinants of occlusion, function and anatomy of the temporo--mandibular joint	1	Dr. Alaa	A1	Questions during the lecture.	Ash M, Nelson S « Wheeler's Dental Anatomy, Physiology and Occlusion » 8th Edition, Elsevier 2003.

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The neuro--muscular function and its interaction with occlusal morphology	2	Dr. Islam	A1	Quizes or questions during the lecture.	Ash M, Nelson S « Wheeler's Dental Anatomy, Physiology and Occlusion » 8th Edition, Elsevier 2003.
Articulators	3	Dr. Alaa	C1, A2	Quizes or questions during the lecture.	Okeson Dmd, Jeffrey P « The Management of Temporomandibular Disorders and Occlusion » 5th Edition, Mosby 2003.
Occlusal registration and facebow	4	Dr. Alaa	C1, C2	Quizes or questions during the lecture.	Okeson Dmd, Jeffrey P « The Management of Temporomandibular Disorders and Occlusion » 5th Edition, Mosby 2003.
Anterior guidance	5	Dr. Islam	A2	Quizes or questions during the lecture.	Okeson Dmd, Jeffrey P « The Management of Temporomandibular Disorders and Occlusion » 5th Edition, Mosby 2003.

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Examination of the tempromandibular joint and related muscles	6	Dr. Ayah	A1, B1	Quizes or questions during the lecture.	Okeson Dmd, Jeffrey P « The Management of Temporomandibular Disorders and Occlusion » 5th Edition, Mosby 2003.
Classification and diagnosis of tempromandibular disorders I	7	Dr. Ayah	B1	Quizes or questions during the lecture.	Dawson Peter E « Evaluation, Diagnosis, and Treatment of Occlusal Problems » 2nd Edition, Mosby 1989
Classification and diagnosis of tempromandibular disorders II	8	Dr. Ayah	B1	Quizes or questions during the lecture.	Dawson Peter E « Evaluation, Diagnosis, and Treatment of Occlusal Problems » 2nd Edition, Mosby 1989
Factors of mandibular movement related to occlusal morpholoty	9	Dr.Firas	A1, A2	Quizes or questions during the lecture.	Okeson Dmd, Jeffrey P « The Management of Temporomandibular Disorders and Occlusion » 5th Edition, Mosby 2003.

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Occlusal analysis	10	Dr. Yara	A1, A2	Quizes or questions during the lecture.	Okeson Dmd, Jeffrey P « The Management of Temporoman dibular Disorders and Occlusion » 5th Edition, Mosby 2003.
Occlusal diseases	11	Dr. Yara	B1, D1	Quizes or questions during the lecture.	Dawson Peter E « Evaluation, Diagnosis, and Treatment of
					Occlusal Problems » 2nd Edition, Mosby 1989
Treatment modalities of tempro--mandibular disorders I	12	Dr. Yara	B1, D1	Quizes or questions during the lecture.	Dawson Peter E « Evaluation, Diagnosis, and Treatment of Occlusal Problems » 2nd Edition, Mosby 1989
Treatment modalities of tempro--mandibular disorders II	13	Dr. Yara	B1, D1	Quizes or questions during the lecture.	Dawson Peter E « Evaluation, Diagnosis, and Treatment of Occlusal Problems » 2nd Edition, Mosby 1989

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Occlusal concepts	14	Dr. Firas	A1, A2, D1	Quizzes or questions during the lecture.	Okeson Dmd, Jeffrey P « The Management of Temporomandibular Disorders and Occlusion » 5th Edition, Mosby 2003.
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21. Teaching Methods and Assignments:

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

1. Lectures: 14 one hour lectures
2. Videos
3. Demonestrations
4. Internet resources
5. Pictures and drawings
6. Dental models
7. Quizzes

22. Evaluation Methods and Course Requirements:

- Opportunities to demonstrate achievement of the ILOs are provided through the following assessment methods and requirements:
- Midterm exam: 40 points, MCQs.
- Final Exam: 60points, MCQs.

23. Course Policies:

A-- Attendance policies:

Students are allowed 15% absence according to the laws of the university. The handout and recommended textbook are not comprehensive and additional material will be covered in lectures. You are responsible for all material covered in lectures.

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. If he/she did not attend an exam without an acceptable excuse the student's mark for that exam will be zero. Contributions in e--learning forums are accepted if submitted 24 hours before time of final exam. C-- **Health and safety procedures:**

No special recommendations.

D-- Honesty policy regarding cheating, plagiarism, misbehavior:

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Dishonesty of any kind with respect to examinations, course assignments, alteration of records, or illegal possessions of examinations will be considered as academic misconduct. It is the responsibility of the student not only to abstain from such behavior, but also to avoid the appearance of misbehavior and to guide against making it possible for others to misbehave. Students who collaborate in academic misconduct are as guilty as the student they assist. The student also should do everything possible to induce respect for the examination process and for honesty in the performance of assigned tasks in or out of class. Rules regarding this matter apply to all examinations and course work. Please refer for your Student Guide book for detailed regulations.

E-- Grading policy:

Both Midterm exam and Final exam will be Computerized exams. 40 MCQs questions will be prepared for the Midterm exam, and a final 120 MCQs questions will be prepared. Total score will be 100. Percentage marks are converted to letters. (A)/(A--) are usually given for top 10--15% of students. Percentage mark < 50 does not mean a mark of (D--) or (F).

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. They can access the Moodle e--learning through the UJ's wireless internet facilities for free or through the computer lab in the Faculty of Dentistry. A lot of other facilities and support can be provided through the Deanship of Student Affairs.

24. Required equipment:

Each student should bring:

1. Laptop
2. Articulator

25. References:

A-- Required book (s), assigned reading and audio--visuals:

Okeson Dmd, Jeffrey P « The Management of Temporomandibular Disorders and Occlusion » 5th Edition, Mosby 2003.

Dawson Peter E « Evaluation, Diagnosis, and Treatment of Occlusal Problems » 2nd Edition, Mosby 1989

B-- Recommended books, materials, and media:

Ash M, Nelson S « Wheeler's Dental Anatomy, Physiology and Occlusion » 8th Edition, Elsevier 2003.

26. Additional information:

On average you should expect to spend between 3 and 5 hours per week on this course.

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Concerns or complaints should be expressed in the first instance to the course instructor. If no resolution is forthcoming then the issue should be brought to the attention of the Department Chair and if still unresolved to the Dean. Questions about the material covered in the lectures, notes on the content of the course, its teaching and assessment methods can be also sent by e-mail.

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

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

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

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

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

Copy to:

Head of Department
Assistant Dean for Quality
Assurance
Course File