



Jordan University of Science and Technology
Faculty of Dentistry
Dental Surgery Department

DENT705 Occlusion And Temporomandibular Joint
First Semester 2023-2024

Course Catalog
1 Credit Hours. Dent 705 is a theoretical course. This will be provided in the form of 2-hour seminar once a week. 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. The aim of this course is to provide students with more information and furnish their knowledge about the clinical aspects of removable prosthodontics that include both complete and partial dentures treatments.

Text Book	
Title	Management of Temporomandibular Disorders and Occlusion.
Author(s)	Okeson, Jeffrey P
Edition	4th Edition
Short Name	Ref I
Other Information	

Course References

Short name	Book name	Author(s)	Edition	Other Information
Ref II	Functional Occlusion: From TMJ to Smile Design	Dawson, Peter E	6th Edition	
Ref III	A clinical guide to occlusion	Davis SJ and Gray RJM	1st Edition	
Ref IV	Contemporary Fixed Prosthodontics	Rosenstiel et al	4th Edition	

Instructor	
Name	Prof. Wael Al-Omari
Office Location	234
Office Hours	
Email	womari@just.edu.jo

Class Schedule & Room
Section 1: Lecture Time: Sun : 08:30 - 09:30 Room: U

Tentative List of Topics Covered		
Weeks	Topic	References
Week 1	Introduction, guidelines and instructions to the course	
Week 2	Functional anatomy of the masticatory system I	From Ref II
Week 3	Functional anatomy of the Masticatory system II	From Ref II
Week 4	TMJ disorders and diseases	From Ref I, From Ref II
Week 5	Non-Surgical treatment of TMJ disorders and diseases	From Ref I, From Ref II
Week 6	Occlusal splints	From Ref I, From Ref II, From Ref IV
Week 7	Occlusion: definition, examination and recording	From Ref II, From Ref III, From Ref IV
Week 8	Determinants of Occlusal Morphology, anterior Guidance and Its Relationship to Smile Design	From Ref II
	Occlusion in removable prosthodontics	From Ref II, From Ref III

Week 10	Occlusal Interferences: diagnosis and achieving occlusal harmony	From Ref II, From Ref III
Week 11	Diagnosis and management of parafunctional patients	From Ref I, From Ref II, From Ref III
Week 12	Occlusion and Principles of Oral Implant Restoration	From Ref III, From Ref IV
Week 13	Occlusal management of tooth loss: vertical dimension increase	From Ref II, From Ref III, From Ref IV
Week 14	New technological advances in occlusal assessment and management	From Ref II, From Ref IV

Mapping of Course Outcomes to Program Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
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	15%	
Comprehensive understanding of the mandibular movements, jaw relationships as well as occlusal harmony. In addition to the uses of articulators as a diagnostic device	15%	
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.	15%	
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	15%	
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.	20%	
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%	

Relationship to Program														
1.	1.	1.	1.	1.	2.	2.	2.	2.	2.	2.	2.	2.	3.	3.
Knowledge	Knowledge	Knowledge	Knowledge	Knowledge	Cognitive:	Cognitive	Cognitive	Cognitive	Cognitive	Cognitive	Cognitive	Cognitive	Psychomotor/manual	Psychomotor/mani

Policy	
General policies	<p>Exams: All exams are closed book and notes. The final exam is comprehensive (covers all the material). Incomplete exams need approval from the Dean pertaining to the university bylaws</p> <p>Cheating Prohibited: In case of cheating the student will be subject to punishment according to the university regulations</p> <p>Attendance: Students must attend 100% of all scheduled classes. Class participation is required. Should an absence be necessary, student should contact the course instructor immediately.</p> <p>Make up ONLY with an excused absence.</p> <p>Late arrivals to class may be considered unexcused absences</p> <p>Participation: Each student will be assigned a seminar. Course director will provide students with references and materials. The seminar presenter will be responsible for:</p> <ol style="list-style-type: none"> 1. Leading the seminar. 2. Presenting the assigned articles. 3. Engage the other students in critically discussing the presented topics <p>Laboratory: No laboratory part is included in this course</p> <p>Withdraw: According to university regulations</p>
Assessment	<p>Assessment Type Expected Due Date Weight</p> <p>Intra semester To be announced later 25%</p> <p>Second Exam (presentations, participations and clinical cases occlusal analysis) All semester 25%</p> <p>Final Exam To be announced 50%</p>

Date Printed: 2023-10-30