Republic of Yemen

Ministry of Higher Education & Scientific Research
Emirates International University



Faculty of Dentistry Department of Conservative Dentistry

Doctor of Dental Surgery

Course Specification of Clinical Occlusion

Course No. ()



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Review committee:

Head of the Department

Quality Assorance head

Dean of Faculty





I	. Course Identification and Gener	al Info	rmation			
1	Course Title:	Clinical	Occlusion			
2	Course Code & Number:					
		Credit	Theory	Hours	Lab.	
3	Credit Hours:	Hours	Lecture	Exercise	Hours	
		2	1	3		
4	Study Level/ Semester at which this Course is offered:	5 th Level / 1 st Semester				
5	Pre –Requisite (if any):	Removable Prosthodontics and Fixed Prosthodontics				
6	Co -Requisite (if any):	None				
7	Program (s) in which the Course is Offered:	Doctor of Dental Surgery				
8	Language of Teaching the Course:	English				
9	Study System:	Semester based System				
10	Mode of Delivery:	Full Time				
11	Location of Teaching the Course:	Faculty of Dentistry				
12	Prepared by:	Dr. Ibre	ehim Al-Sha	ımi		

II. Course Description:

The aim of this course is known the students about techniques for tooth extraction in upper and lower jaw, know mechanisms of normal extraction wound healing, therapy options for complications during and after tooth extraction. It covers the basic knowledge about Oral Surgery as they relate to the general practitioner of dentistry, also begin basic exodontia steps, as well as developing an understanding of aseptic techniques, local anesthetic and exodortic can question armentarium, and principles of tooth extraction





	III. Course Intended Learning Outcomes (CILOs): Upon successful completion of the course, students will be able to:	Referenced PILOs Learning out of program		
	A. Knowledge and Understanding:	I, A or E		
al	Discuss and demonstrate the knowledge in regards to history of occlusion and explain and identify the interrelationship of morphologic and functional occlusion		A2	
a2	Identify and explain centric occlusion and discuss eccentric contact		A6	
a3	To identify the dental morphology and principles of occlusion for restorative, prosthetic and orthodontic clinical practice		A6	
	B. Intellectual Skills:			
b1	Make and formulate an appropriate treatment plan as well as justify it if challenged.		B1, B3	
Ъ2	Select suitable materials and instruments to perform basic dental occlusion as well as prescribe different techniques depending on the patient's needs.		B5	
	C. Professional and Practical Skills:			
c1	Apply, demonstrate and practice cast mounting on an adjustable articulator		C7	
c2	Explain the interrelationship of morphologic and functional occlusion referral of patients for specialist advice or treatment		C5	
	D. Transferable Skills:			
d1	Communicate and appraise clinical problems and treatment plans with other		D3	
			JE ATE	





	specialties involved in the treatment of patients	
d2	Manage patients with confidence, sympathy and understanding.	D6

	Course Intended Learning Outcomes		Teaching Strategies	Asse	ssment Strategies
a1	Discuss and demonstrate the knowledge in regards to history of occlusion and explain and identify the interrelationship of morphologic and functional occlusion	:	Lectures Debate	:	Quizzes Midterm Exam Final Exam
a2	Identify and explain centric occlusion and discuss eccentric contact		Lectures Debate	:	Quizzes Midterm Exam Final Exam
a3	To identify the dental morphology and principles of occlusion for restorative, prosthetic and orthodontic clinical practice	:	Lectures Debate	:	Quizzes Midterm Exam Final Exam
	(B) Alignment of Course Intende Strategies and Assessment Meth		rning Outcomes (Intellec	tual Skills) to Teaching
	Course Intended Learning Outcomes		Teaching Strategies	Asse	ssment Strategies
b1	Make and formulate an appropriate treatment plan as well as justify it if challenged.	:	Lecture Discussion	:	Quizzes Midterm Exam Final Exam
b2	Select suitable materials and instruments to perform basic dental occlusion as well as prescribe different techniques depending on the patient's needs.	:	Lecture Discussion		Quizzes Midterm Exam Tinal Exam

(C) Alignment of Course Intended Learning Outcomes (Professional and Reactical





	Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies
c1	Apply, demonstrate and practice cast mounting on an adjustable articulator	DiscussionTrainingDebate	Practical ExamObservationSemester Work
c2	Explain the interrelationship of morphologic and functional occlusion referral of patients for specialist advice or treatment	DiscussionTrainingDebate	Practical ExamObservationSemester Work
	(D) Alignment of Course Intended Strategies and Assessment Meth Course Intended Learning Outcomes		sferable Skills) to Teachi Assessment Strategies
111	Strategies and Assessment Meth	ods:	T

IV. Course Contents:

A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	Introduction	Definition, Development of occlusion, terminology, Horizontal overlap, Overjet, Vertical overlap, Overbite, Tooth to two tooth occlusion, Tooth to tooth occlusion, Morphological occlusion, Functional occlusion, Centric occlusion (CO), Centric relation (CR), Ideal occlusion, Centric holding cusps, Facial range, Lingual range, Linguoversion, Facioversion and End-on occlusion	1 st - 4 th	4	a1, b1



No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
2	Type of Occlusion	Class I occlusion, Class II occlusion, Class III occlusion, Key landmarks, Key to occlusion, Distoversion, Mesioversion, Crossbite, Centric contacts, Poded centric contacts, Tripoded contacts, Quadrapoded contacts, Eccentric occlusion, Right lateral, Left lateral, Protrusive, Envelope of function, Disclusion, Determinants of occlusion and Controlling	5 ^{th-} 7 th	3	a1,a2
3	Midterm Exam		8 th	1	a1, a2, b1
4	Surgical Occlusion	Occlusal examination, Condylar guidance, Incisal & canine guidance, Responsive, Eminentia, Translation, Bennett movement, Intercondylar distance, Clenching, Bruxing and surgical management including class3 and Occlusion in Advanced Implant	9 th -11 th	3	a1, a2, b1, b2
5	Denture Occlusion	Fixed factors of articulation, Variable factors of articulation, Incisal guidance, Canine guidance, End-to-end bite, Curve of Spee, Compensating curve, Curve of Wilson, Monson's curve, Escapeways, Functional contacts, Working contacts, Nonworking contacts, Fully balanced occlusion, Canine guided occlusion, Stamping cusps, Shearing cusps, Articulation, Dental arch form. Overlap of the teeth, Curvatures of occlusal planes, Occlusal contacts and Intercuspal relations between arches. Cusp, Fossa, and marginal ridge relations.	12 th - 15 th	4	a2, a3, b1, b2
6	Final Exam		16 th	1	a1-a3, b1, b2
	Number of We	eks /and Units Per Semester	16	16	Grand Conference of the confer





B. Case Studies and Practical Aspect:

No.	Tasks/ Experiments	Week Due	Contact Hours	Learning Outcomes (CILOs)
1	- One Case: A single appliance	1 st -14 th	42	c1,c2,d1,d2
2	Practical exam	15 th	3	c1,c2,d1,d2
	Number of Weeks /and Units Per Semester	15	45	

V. Teaching Strategies of the Course:

- Lectures
- Discussions
- Brainstorming
- Training
- Debate

VI. Assessment Methods of the Course:

- Quizzes
- Midterm Exam
- Final Exam
- Practical Exam
- Observation
- Semester Work

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VII.	Assign	men	LC:
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No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
1	Requirements	1 st -14 th	10	c1,c2,d1,d2
	Total		10	





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				1 25K5 101	Students	Duling in	e Semester:
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No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Quizzes	4 th , 12 th	10	10%	a1, a2, b1, b2
2	Midterm Exam	8th	20	20%	a1, a2, b1
3	Assignments	1 st -14 th	10	10%	c1,c2,d1,d2
4	Practical Exam	15 th	10	10%	c1,c2,d1,d2
5	Final Exam	16 th	50	50%	a1-a3, b1, b2
	Total		100	100%	

IX. Learning Resources:

1- Required Textbook(s) (maximum two):

Peter E. Dawson, 2006, Functional Occlusion: From TMJ to Smile Design 1st Edition, Mosby

2- Essential References:

Iven Klineberg (Author), 2015, Steven Eckert, Functional Occlusion in Restorative Dentistry and Prosthodontics E-Book 1st Edition, Mosby Ltd.

3- Electronic Materials and Web Sites etc.:

https://www.ajodo.org/article/0002-9416(75)90234-1/fulltext

https://jada.ada.org/article/S0002-8177(14)60609-7

	X. Course Policies: (Based on the Uniform Students' By law (2007)
1	Class Attendance: Class Attendance is mandatory. A student is considered absent and shall be banned from taking
•	the final exam if his/her absence exceeds 25% of total classes.
	Tardiness:
2	A student will be considered late if he/she is not in class after 10 minutes of the start time of
	class.
	Exam Attendance/Punctuality:
3	No student shall be allowed to the exam hall after 30 minutes of the start time and shall not leave the hall before half of the exam time has passed.





4	Assignments & Projects: Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
5	Cheating: Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
6	Forgery and Impersonation: Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
7	Other policies: The University official regulations in force will be strictly observed and students shall comply with all rules and regulations of the examination set by the Department, Faculty and University Administration.







Faculty of Dentistry

Department of Conservative Dentistry

Doctor of Dental Surgery

Course Plan (Syllabus) of Clinical Occlusion Course No. ()

I. Information about Faculty Me	mber Responsible for the Course:	
Name of Faculty Member: Office Hours		
Location& Telephone No.:		
E-mail:	SAT SUN MON TUE WED THU	







No.	Tasks/ Experiments	Week Due	Contact Hours
1	- One Case: A single appliance	1 st -14 th	42
2	Practical exam	15 th	3
	Number of Weeks /and Units Per Semester	15	45

VI. Teaching Strategies of the Course:

- Lectures
- Discussions
- Brainstorming
- Training
- Debate

VII. Assessment Methods of the Course:

- Quizzes
- Midterm Exam
- Final Exam
- Practical Exam
- Observation
- Semester Work

No.	Assignments	Week Due	Mark
1 Reg	uirements	1st-14th	10





I	II. Course Identification and General Information:				
1	Course Title:	Clinical Occlusion			
2	Course Code & Number:				
	Credit Hours:	Credit	Theory Hours		Lab.
3		Hours	Lecture	Exercise	Hours
		2	1	3	
4	Study Level/ Semester at which this Course is offered:	5th Level / 1st Semester			
5	Pre –Requisite (if any):	Removable Prosthodontics and Fixed Prosthodontics			
6	Co -Requisite (if any):	None			
7	Program (s) in which the Course is Offered:	Doctor of Dental Surgery			
8	Language of Teaching the Course:	English			
9	Study System:	Semester based System			
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11	Location of Teaching the Course:	Faculty	of Dentistry	7	
12	Prepared by:	Dr. Ibrehim Al-Shami			

III. Course Description:

The aim of this course is known the students about techniques for tooth extraction in upper and lower jaw, know mechanisms of normal extraction wound healing, therapy options for complications during and after tooth extraction. It covers the basic knowledge about Oral Surgery as they relate to the general practitioner of dentistry, also begin basic exodontia steps, as well as developing an understanding of aseptic techniques, local anesthetic and exodontia techniques armentarium, and principles of tooth extraction





Course Intended Learning Outcomes (CILOs): Upon successful completion of the Course, student will be able to: A. Knowledge and Understanding: Discuss and demonstrate the knowledge in regards to history of occlusion and explain and a1 identify the interrelationship of morphologic and functional occlusion Identify and explain centric occlusion and discuss eccentric contact a2 To identify the dental morphology and principles of occlusion for restorative, prosthetic and a3 orthodontic clinical practice B. Intellectual Skills: Make and formulate an appropriate treatment plan as well as justify it if challenged. **b**1 Select suitable materials and instruments to perform basic dental occlusion as well as b2 prescribe different techniques depending on the patient's needs. C. Professional and Practical Skills: Apply, demonstrate and practice cast mounting on an adjustable articulator c1 Explain the interrelationship of morphologic and functional occlusion referral of patients for c2 specialist advice or treatment D. Transferable Skills: Communicate and appraise clinical problems and treatment plans with other specialties d1 involved in the treatment of patients

	V. Course Contents: A. Theoretical Aspect:					
No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours		
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V. Course Contents:

A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
		Centric occlusion (CO), Centric relation (CR), Ideal occlusion, Centric holding cusps, Facial range, Lingual range, Linguoversion, Facioversion and End-on occlusion		
2	Type of Occlusion	Class I occlusion, Class II occlusion, Class III occlusion, Key landmarks, Key to occlusion, Distoversion, Mesioversion, Crossbite, Centric contacts, Poded centric contacts, Tripoded contacts, Quadrapoded contacts, Eccentric occlusion, Right lateral, Left lateral, Protrusive, Envelope of function, Disclusion, Determinants of occlusion and Controlling	5 ^{th-} 7 th	3
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	Final Exam		16 th	1





No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment
1	Quizzes	4th, 12th	10	10%
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5	Final Exam	16 th	50	50%
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