Republic of Yemen

Ministry of Higher Education & Scientific Research
Emirates International University



Faculty of Dentistry

Department of Prosthodontics

Doctor of Dental Surgery (DDS)

Course Specification of

Removable Prosthodontics I (Preclinical) Course No.



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Review committee:

Head of the Department

Quality Assurance head

Dean of Faculty





]	. Course Identification and Gene	eral In	formati	on:		
1	Course Title:	Removable Prosthodontics I (Preclinical)				
2	Course Code & Number:					
3		Credit	Theory	y Hours	Lab.	
3	Credit Hours:	Hours	Lecture	Exercise	Hours	
4	Study Level/ Semester at which this Course is offered:	3 2 2 3rd Level / 1st Semester				
5	Pre –Requisite (if any):	Dental Morphology II Dental material II				
6	Co -Requisite (if any):	None				
7	Program (s) in which the Course is Offered:	Doctor of Dental Surgery (DDS)				
8	Language of Teaching the Course:	English				
9	Study System:	Term based				
10	Mode of Delivery:	Full Time				
11	Location of Teaching the Course:	Faculty of dentistry				
12	Prepared by:	Dr. Abba	ıs M. Al-kel	bsi		

II. Course Description:

This is the student's first preclinical course in the field of prosthodontics. The course is provided to the 3nd year undergraduate dental students. Students will be taught the followings theoretical topics: the necessary anatomical knowledge of the maxillary and mandibular edentulous arches, and different laboratory steps for complete denture construction. This course is accompanied by laboratory exercises with no clinical sessions.







	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		
a1	Identify and understand the basic principles for the theory and practical related to complete dentures.		A1	
a2	Demonstrate the anatomical land marks of upper and lower arches and their relation to complete dentures fabrication.		A2	
	B. Intellectual Skills:			
b1	Select suitable materials that used in construction of complete denture		B1	
b2	Construct different preventive strategies to prevent further ridge loss		B2	
	C. Professional and Practical Skills:			
c1	Know and apply the different steps for complete denture construction with consideration of infection control protocols		C1	
c2	Diagnose and analyze the practical problems of the complete denture		C2	
9 8 1	D. Transferable Skills:			
d1	Use the latest technology for presenting and collecting data.		D1	
d2	Manage time and resources		D2	





	(A) Alignment of Course Intend to Teaching Strategies and Ass	ded Learning Outcomes (Knoessment Methods:	wledge and Understanding)
	Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies
a1	Identify and understand the basic principles for the theory and practical related to complete dentures.	Lectures Discussion	Quizzes Midterm exam Final exam
a2	Demonstrate the anatomical land marks of upper and lower arches and their relation to complete dentures fabrication.	Lectures Discussion	Quizzes Midterm exam Final exam
	(B) Alignment of Course Intend Strategies and Assessment Meth	ed Learning Outcomes (Intel	lectual Skills) to Teaching
	Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies
b1	Select suitable materials that used in construction of complete denture	Lectures Training Discussion Debate	Quizzes Midterm exam Final exam Practical exam
b2	Construct different preventive strategies to prevent further ridge loss	Lectures Training Discussion Debate	Quizzes Midterm exam Final exam Practical exam
	(C) Alignment of Course Intende Skills) to Teaching Strategies and	ed Learning Outcomes (Profed Assessment Methods:	ssional and Practical
	Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies
1	Select suitable materials that used in construction of complete denture	Training Discussion	Semester Work Practical exam





c2	Construct different preventive strategies to prevent further ridge loss	Training Discussion	Semester Work Practical exam
	sferable Skills) to Teaching		
	Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies
d1	Use the latest technology for presenting and collecting data.	Training	Semester Work
	prosenting and concerning data.	Discussion	Practical exam
		Brainstorming	
d2	Manage time and resources	Training	Semester Work
		Discussion	Practical exam
		Brainstorming	

IV. Course Contents:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	Introduction to Removable prosthodontics	- Terminology of prosthodontics term - Sequelae of tooth loss - Objectives of complete denture - Steps of complete denture construction	Week 1	2	a1, b1
2	Anatomical landmarks of both arches	 Supporting and limiting structures of the upper arch in relation to maxillary complete denture. Supporting and limiting structures of the lower arch in relation to mandibular complete 	Week 2 Week 3	4	a2



No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
		denture.			
3	Impressions	- Definition - Objective - Different types of impression trays and types of impression Preliminary (primary) impression.	Week 4	2	a1, a2, b1
4	Final (secondary) impression and boxing the impression	Different final Impression techniques.Definition, advantages and methods for boxing	Week 5	2	a1,a2,b1
5	Occlusion blocks (Record bases and occlusal rims)	-Trial base or a record base: Requirements and Types of record bases - Occlusion rims: Uses (functions) of occlusion rims	Week 6	2	a1,a2,b1
6	Midterm Exam	MCQs	Week 7	2	a1, a2, b1
7	Mandibular movements and TMJ	-Definition -Anatomy and physiology of the TMJ -Basic mandibular movements and border and intra-border movements	Week 8	2	a2
8	Articulators and face bows	- Articulator: . Definition . Functions . Advantages	Week 9	2	a1, a2, b1, b2



No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
		. Types of articulators			
		- Face bow:			
		. Definition			
		. Types of Face bows			
	Jaw relation	-Jaw relation:			
	records and mounting	. Definitions			a1, a2, b1,
		. Vertical dimension			b2
		. Centric relation			
9		. Steps of recording centric occluding relation	Week 10	2	
		-Mounting of casts on articulator:			
		. Definition			
		. Method			
		. Common errors			
	Relief and	- Definitions			
	posterior palatal seal	- Areas to be relieved			a1, a2,
10		- Functions of posterior palatal seal	Week 11	2	b1,b2
		- Methods of Post palatal seal			
	Selections and arrangement of	- Selection of Artificial teeth (shade, shape, size and materials)	W 1 12	2	al al hi
11	artificial teeth	- Arrangement of anterior and posterior of both arches	Week 12	2	a1, a2, b1
		- Definition,			
12	Development of occlusion	- Angle's classification of occlusion	Week 13	2	a1, a2
		- Differences between natural and		No. of the last of	



No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
		- Laws of Articulation and concepts of Occlusion			
13	Laboratory steps for processing the complete denture	 Flasking Wax elimination Packing, curing Deflasking Finishing and Polishing 	Week 14	2	a1, a2, b1, b2
14	Retention and stability	Definition . Factors affecting retention and stability - Repair, relining and rebasing of complete dentures	Week 15		a1, a2, b1, b2
15	Final Exam	MCQs	Week 16	2	a1, a2, b1, b2
	Number of Weeks	/and Units Per Semester	16	32	

В	. Case Studies and Practical Aspect:			
No.	Tasks/ Experiments	Week Due	Contact Hours	Learning Outcomes (CILOs)
1	Pouring upper and lower edentulous rubber molds.	1 st .	2	b1, c1, c2, d1, d2
2	Identifying the anatomical landmarks on the models (upper) Identifying the anatomical landmarks on the models	2 nd	2	b1, c1, c2, d1, d2



No.	Tasks/ Experiments	Week Due	Contact Hours	Learning Outcomes (CILOs)
	(lower)			
3	Draw the outlines on the models Wax spacer + stops	3 rd	2	b1, c1, c2, d1, d2
4	Acrylic custom tray fabrication for upper cast Acrylic custom tray fabrication for lower cast	4 th	2	b1, c1, c2, d1, d2
4	Finishing of trays	5 th	2	b1, c1, c2, d1, d2
5	Impression making with special tray for upper cast Impression making with special tray for lower cast	6 th	2	b1, c1, c2, d1, d2
6	Beading and boxing of upper impression Beading and boxing of lower impression	7 th	2	b1, c1, c2, d1, d2
	Pouring of impressions			b1, c1, c2, d1, d2
7	Record base with acrylic resin and occlusal rim construction on the upper master cast	8 th	2	b1, c1, c2, d1, d2
8	Record base with acrylic resin and occlusal rim construction on the lower master cast	9 th	2	b1, b2, c1, c2, d1, d2
9	Post damming (posterior palatal seal)	10 th	2	b1, b2,c1, c2, d1, d2
10	Mounting the master cast on the articulator Setting up of anterior teeth	11 th	2	b1, b2,c1, c2, d1, d2
11	Setting up of posterior teeth	12 th	- 1	b1, b2,c1, c2, d1, d2
12	Waxing up of trial dentures Flasking	13 th		b1, b2,c1, c2, d1, d2





No.	Tasks/ Experiments	Week Due	Contact Hours	Learning Outcomes (CILOs)
	Wax elimination and packing			
	Curing			
	Finishing and polishing			
13	Practical Exam	14 th	2	b1, b2,c1, c2, d1, d2
	Number of Weeks /and Units Per Semester	14	28	

V. Teaching Strategies of the Course:

- Lectures
- Debate
- Training
- Discussion
- Brainstorming

VI. Assessment Methods of the Course:

- Quizzes
- Midterm exam
- Final exam
- Practical exam
- Semester Work
- Assignments

VII. Assignments:				
No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
1	Practical work and assignments	1 ^{st-} 13 th	20	b1, b2,c1, c2, d1, d2
	Total		20	





VIII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Assignments	1 ^{st-} 13 th	20	20 %	b1, b2,c1, c2, d1, d2
2	Quizzes	5 th	5	5 %	a1, a2, b1
3	Practical Exam	14 th	15	15 %	b1, b2,c1, c2, d1, d2
4	Midterm Exam	7 th	20	20 %	a1, a2, b1
5	Final Exam	16 th	40	40 %	a1, a2, b1, b2
	Total		100	100%	

IX. Learning Resources:

1- Required Textbook(s):

- 1. Alan B. Carr, Glen P. McGivney, David T. Brown: McCracken's Removable Partial Prosthodontic, 2005, 11th Ed., Mosby
- 2. Phoenix, Rodney D.; Cagna, David R.; DeFreest, Charles F., 2008: Stewart's Clinical Removable Partial Prosthodontics, 4th ed., Quintessence.
- 3- Removable partial dentures technology, book of the department 2nd Ed 2010 Egypt, Cairo University press

2- Essential References:

- 1- Margareta M. Thoren, 2012: Textbook of Removable Prosthodontics, UK ed. Edition, Munksgaard, Denmark
- 2- Zarb RD., 2004: Boucher's prosthodontics treatment for edentulous patients, 12th Ed., Mosby Co.
- 3- Supply the library with Video tapes, C.D and DVDs which are essential to be as a reference for lectures and laboratory steps.

3- Electronic Materials and Web Sites etc.:

Websites:

1- Jaypee digital books

www.jaypeedigital.com







2- Springer Link

https://link.springer.com/

3- Quintessence

http://www.quintpub.com/index.php

	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.
2	Tardiness: A student will be considered late if he/she is not in class after 10 minutes of the start time of class.
3	Exam Attendance/Punctuality: 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 Prosthodontics

Program of Doctor of Dental Surgery (DDS)

Course Plan (Syllabus) of Removable Prosthodontics I (Preclinical)

Course No. ()

I. Information about	Faculty Member Res	pons	ible	for	the	Cou	rse:
Name of Faculty Member:	Abbas M. Al-kebsi			Office		-	
Location& Telephone No.:	+967773888121						
E-mail:	Abbas alkebsi@yahoo.com	SAT	SUN	MON	TUE	WED	THU





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1	Course Title:	Remov	able Prostho	odontics I (P	reclinical
2	Course Code & Number:				
		Credit	Theory	Hours	Lab.
3	Credit Hours:	Hours	Lecture	Exercise	Hours
		3	2		2
4	Study Level/ Semester at which this Course is offered:	3rd Lev	el / 1st Sem	ester	
5	Pre –Requisite (if any):		Morphology	II	
6	Co -Requisite (if any):	None			
7	Program (s) in which the Course is Offered:	Doctor o	of Dental Su	rgery (DDS)
8	Language of Teaching the Course:	English			
9	Study System:	Term ba	sed		
10	Mode of Delivery:	Full Tim	ie		
11	Location of Teaching the Course:	Faculty of	of dentistry		
12	Prepared by:	Dr. Abba	as M. Al-kel	osi	-

III. Course Description:

This is the student's first preclinical course in the field of prosthodontics. The course is provided to the 3nd year undergraduate dental students. Students will be taught the followings theoretical topics: the necessary anatomical knowledge of the maxillary and mandibular edentulous arches, and different laboratory steps for complete denture construction. This course is accompanied by laboratory exercises with no clinical sessions.





IV. Course Intended Learning Outcomes (CILOs): Upon successful completion of the Course, student will be able to:

	Upon successful completion of the Course, student will be able to:
	A. Knowledge and Understanding:
a1	Identify and understand the basic principles for the theory and practical related to complete dentures.
a2	Demonstrate the anatomical land marks of upper and lower arches and their relation to complete dentures fabrication.
	B. Intellectual Skills:
b1	Select suitable materials that used in construction of complete denture
b2	Construct different preventive strategies to prevent further ridge loss
	C. Professional and Practical Skills:
c1	Know and apply the different steps for complete denture construction with consideration of infection control protocols
c2	Diagnose and analyze the practical problems of the complete denture
	D. Transferable Skills:
d1	Use the latest technology for presenting and collecting data.
d2	Manage time and resources

V. Course Contents:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
	Introduction to Removable	- Terminology of prosthodontics term - Sequelae of tooth loss	W	
1	prosthodontics	- Objectives of complete denture - Steps of complete denture construction	Week 1	2





V. Course Contents:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
2	Anatomical landmarks of both arches	 Supporting and limiting structures of the upper arch in relation to maxillary complete denture. Supporting and limiting structures of the lower arch in relation to mandibular complete denture. 	Week 2 Week 3	4
3	Impressions	 Definition Objective Different types of impression trays and types of impression. Preliminary (primary) impression. 	Week 4	2
4	Final (secondary) impression and boxing the impression	Different final Impression techniques.Definition, advantages and methods for boxing	Week 5	2
5	Occlusion blocks (Record bases and occlusal rims)	-Trial base or a record base: Requirements and Types of record bases - Occlusion rims: Uses (functions) of occlusion rims	Week 6	2
6	Midterm Exam	MCQs	Week 7	2
7	Mandibular movements and TMJ	-Definition -Anatomy and physiology of the TMJ -Basic mandibular movements and border and intra-border movements	Week 8	2





V. Course Contents:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
	Articulators and face bows	- Articulator:		
	Dows	. Definition		
		. Functions		
		. Advantages		
8		. Types of articulators	Week 9	2
		- Face bow:		
		. Definition		
		. Types of Face bows		
	Jaw relation records	-Jaw relation:		
	and mounting	. Definitions		
		. Vertical dimension		
		. Centric relation		
9		. Steps of recording centric occluding relation	Week 10	2
		-Mounting of casts on articulator:		
		. Definition		
		. Method		
		. Common errors		
		- Definitions		
	palatal seal	- Areas to be relieved	W	_
10		- Functions of posterior palatal seal	Week 11	2
		- Methods of Post palatal seal		





V. Course Contents:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contac Hours
11	Selections and arrangement of artificial teeth	 Selection of Artificial teeth (shade, shape, size and materials) Arrangement of anterior and posterior of both arches 	Week 12	2
12	Development of occlusion	 Definition, Angle's classification of occlusion Differences between natural and artificial occlusion Laws of Articulation and concepts of Occlusion 	Week 13	2
13	Laboratory steps for processing the complete denture	- Flasking- Wax elimination- Packing, curing- Deflasking- Finishing and Polishing	Week 14	2
14	Retention and stability	Definition . Factors affecting retention and stability - Repair, relining and rebasing of complete dentures	Week 15	
15	Final Exam	MCQs	Week 16	2
	Number of Weeks	s /and Units Per Semester	16	32





No.	Tasks/ Experiments	Week Due	Contac Hours
1	Pouring upper and lower edentulous rubber molds.	1 st	2
2	Identifying the anatomical landmarks on the models (upper) Identifying the anatomical landmarks on the models (lower)	2 nd	2
3	Draw the outlines on the models Wax spacer + stops	3 rd	2
	Acrylic custom tray fabrication for upper cast	4 th	2
4	Acrylic custom tray fabrication for lower cast Finishing of trays	5 th	2
5	Impression making with special tray for upper cast Impression making with special tray for lower cast	6 th	2
6	Beading and boxing of upper impression Beading and boxing of lower impression Pouring of impressions	7 th	2
7	Record base with acrylic resin and occlusal rim construction on the upper master cast	8 th	2
8	Record base with acrylic resin and occlusal rim construction on the lower master cast	9 th	2
9	Post damming (posterior palatal seal)	10 th	2
10	Mounting the master cast on the articulator Setting up of anterior teeth	11 th	2
1	Setting up of posterior teeth	12 th	2





No.	Tasks/ Experiments	Week Due	Contac Hours
	Waxing up of trial dentures		2
	Flasking		
12	Wax elimination and packing	13 th	
	Curing		
	Finishing and polishing		
13	Practical Exam	14 th	2
	Number of Weeks /and Units Per Semester	14	28

VI. Teaching Strategies of the Course:

- Lectures
- Debate
- Training
- Discussion
- Brainstorming

VII. Assessment Methods of the Course:

- Quizzes
- Midterm exam
- Final exam
- Practical exam
- Semester Work
- Assignments

No.	Assignments	Week Due	Mark
1	Practical work and assignments	1st- 13th	20

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No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment
1	Assignments	1 ^{st-} 13 th	20	20 %
2	Quizzes	5 th	5	5 %
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