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 II (Pre-Clinical)

Course No (.....)

EMIRATES

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Review committee:

Head of the Department

Quality, Assurance head

Dean of Faculty





I. Course Identification and General Information:

1	Course Title:	Remova	ble Prosthodo	ontics II (Pre-	·Clinical)
2	Course Code & Number:	W 40 60 50 50 50			
		Credi	Theory	Hours	Lab.
3	Credit Hours:	Hours	Lecture	Exercise	Hours
		3	2		2
4	Study Level/ Semester at which this Course is offered:	3 rd Leve	el. / 2 nd Sem	ester.	
5	Pre -Requisite (if any):	Remova	ble Prostho	dontics I (Pr	reclinical)
6	Co -Requisite (if any):	None			
7	Program (s) in which the Course is Offered:	BDS			
8	Language of Teaching the Course:	English			
9	Study System:	Term ba	sed		
10	Mode of Delivery:	Full Tin	ne	Annual Constant of the constan	
11	Location of Teaching the Course:	Faculty	of dentistry		
12	Prepared by:	Dr. Abb	as Al-kebsi		

II. Course Description:

This course is designed to acquire the student with component of removable partial denture and sequence of technical procedure involved in fabrication different designs of removable partial dentures. This helps the students to submit a proper written work authorization to dental technician. The student should attend a one lecture followed by a laboratory session.





	III. Course Intended Learning Outcomes (CILOs): Upon successful completion of the course, students will be able to:			renced PILOs out of program
	A. Knowledge and Understanding:	I, A or E		
a1	Identify the importance of history taking and examination as pillars for good diagnosis and treatment planning.		A1	
al	Demonstrate the anatomical land marks of upper and lower arches and choice of materials used and their relation to partial dentures fabrication.		A2	
a3	Show the knowledge of the imaging techniques of relevance available to the prosthodontist.		A3	
a4	Demonstrate the choice of materials used in the production of different prosthesis, along with knowledge of laboratory procedures		A4	
	B. Intellectual Skills:			
b1	Collect and integrate information from number of resources to gain a coherent understanding of theory and practice.		B1	
b2	Know and apply the different steps for partial denture construction for maxillary and mandibular edentulous arches on appropriate the casts.		B2	æ
b3	Assimilate information derived from the history, examination and special investigations to produce a diagnosis then accordingly formulate the treatment plan.		В3	
b4	Identify cases that can benefit from other dental specialties intervention.		В4	TO THE REAL PROPERTY.





	C. Professional and Practical Skills:		
c1	Diagnose and analyze the practical problems of the complete denture	С	C1
c2	Apply information available in complete denture construction according to international standard.	С	C2
c3	Apply infection control and radiation protection according to international standard.	С	C3
	D. Transferable Skills:		
d1	Establish communication skills that allow the effective delivery of dental treatment and to identify patient expectations, desires and attitudes.	D	D1
d2	Establish a team work treatment.	D	02

(A) Alignment of Course Intended Learning Outcomes (Knowledge and Understanding) to Teaching Strategies and Assessment Methods:				
	Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies	
a1	Identify the importance of history taking and examination as pillars for good diagnosis and treatment planning.	Lectures Discussion	Quizzes Midterm exam Final exam	
a2	Demonstrate sound knowledge in the designs and choice of materials used in the production of different prosthesis, along with knowledge of laboratory procedures and how to overcome problems encountered in both the clinical and laboratory setup.	Lectures Discussion	Quizzes Midterm exam Final exam	
a3	Have knowledge of the social factors of relevance in the diagnosis, planning, delivery and	Lectures Discussion	Quizzes Midterm exam	





	maintenance of prosthodontic treatment.		Final exam
a4	Demonstrate sound knowledge on the laws and ethics governing dental practice.		Quizzes Midterm exam Final exam
	(B) Alignment of Course Intend Strategies and Assessment Met	led Learning Outcomes (Intellectu	al Skills) to Teaching
	Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies
b1	Assimilate information derived from the history, examination and special investigations to produce a diagnosis then accordingly formulate the appropriate treatment plan.	The state of the s	Quizzes Midterm exam Final exam Practical exam
b2	Apply critical thinking and evidence-based problem solving whenever it should be needed for patient's care.	Lectures Training Discussion Debate	Quizzes Midterm exam Final exam Practical exam
	Identify cases that can benefit from other dental specialties intervention.	Lectures Training Discussion Debate	Quizzes Midterm exam Final exam Practical exam
1	accordingly formulate the	Lectures Training Discussion Debate	Quizzes Midterm exam Final exam Practical exam

Skills) to Teaching Strategies and Assessment Methods:





	Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies
c1	Register a history of the present complaint and medical history and perform an extra-oral and intra-oral examination appropriate to the case presented.		Semester Work Practical exam
c2	Apply infection control and radiation protection according to international standard.	Training Discussion	Semester Work Practical exam
c3	Diagnose and appropriately refer patients requiring complex treatment procedures to a specialist.	Training Discussion	Semester Work Practical exam
	(D) Alignment of Course Intend Strategies and Assessment Meth	led Learning Outcomes (Trans	sferable Skills) to Teaching
	Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies
d1	Establish communication skills that allow the effective delivery of dental treatment and to identify patient expectations, desires and attitudes.	Training Discussion Brainstorming	Semester Work Practical exam
d2	Establish team work treatment.	Training Discussion Brainstorming	Semester Work Practical exam

A. Theoretical Aspect:						
No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)	
1	Introduction	Definitions, Objectives, Indications and contraindications	Week 1	2	a1, b1, b2	



No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
		for removable partial dentures			
2	Classification of RPDs	Rules of Applegate	Week 2	2	a1, a2, b1
3	Steps of partial denture construction	The removable partial denture equation and Outline of Clinical and Laboratory Procedure for Construction of Partial Dentures	Week 3	2	a1, a2, b1, b2
4	Surveying	Definition, Objectives of surveying, Surveyor Parts, Principles of surveying, Path of insertion (Path of placement), Factors determining the path of insertion and removal and Selection of the path of insertion.	Week 4	2	a1, a2, b1
5	Components of removable partial dentures	Maxillary Major Connector	Week 5	2	a1, a2, b1
6	Components of removable partial dentures	Mandibular Major Connectors and minor connectors	Week 6	2	a1, a2, b1, b2
7	Midterm Exam	MCQs	Week 7	2	a1, a2, b1, b2
8	Components of removable partial dentures	Rest and rest seat	Week 8	2	a1, a2, b1, b4
9	removable partial dentures	Direct retainers [Definition, Means of retention, Types of direct retainers, Types of extra- coronal direct retainers (Suprabulge clasp)]	Week 9	2	a1, a2, b1, b3
10	Components of removable partial dentures	Direct retainers (Infrabulge clasp)	Week 10	2	a1, a3, b1, b2



No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
11	Components of removable partial dentures	Indirect retainers (Definition, Forces acting on the denture produce rotational movements, Factors influencing the effectiveness of indirect retainers and Types of indirect retainers)	Week 11	2	a1, a2, b2
12	Components of removable partial dentures	-Denture base (Definition, Functions of a denture base, Different types of Denture base and finish lines). - Artificial teeth (tooth materials and types)	Week 12	2	a3, a4, b3
13	Designs of RPD	Basic principles of design	Week 13	2	a1, a4, b2, b4
14	Laboratory procedures for casting of removable partial denture	Outline of clinical and laboratory procedure for construction of partial dentures (surveying the master cast, preparation of the master cast for duplication, types of blockout and wax pattern)	Week 14 and 15	4	a1, a2, b1, b3, b4
15	Final Exam	MCQs	Week 16	2	a1, a2, a3, a4, b1,b2, b3, b4
	Number of Weeks	/and Units Per Semester	16	32	

В.	B. Case Studies and Practical Aspect:				
No.	Tasks/ Experiments	Week Due	Contact Hours	Learning Outcomes (CILOs)	
1	Pouring molds Classification of partially edentulous casts	1 st	2	c1, c2, c3, d1,d2	
	Construction of custom tray with spacer on diagnostic				



No.	Tasks/ Experiments	Week Due	Contact Hours	Learning Outcomes (CILOs)
	cast			
2	-Surveying of study cast -Preparation of guide planes on different types of teeth and re-contouring of abutment teeth Preparation of rest seats	2 nd	2	c1, c2, c3, d1,d2
3	Surveying the master cast to draw the survey line on abutment teeth and to determine the path of placement of the partial denture	3 rd	2	c1, c2, c3, d1,d2
4	Drawing the design of the partial denture and beading of the upper master cast	4 th	2	c1, c2, c3, d1,d2
5	Preparation of the master cast for duplication (modified master cast), blockout (blocking undesirable teeth and tissue undercuts, shaped block out on B and L surfaces) and Relief	5 th	2	c1, c2, c3, d1,d2
6	Duplication of the master cast into a refractory cast (investment cast) Drying the refractory cast then immersion in softened wax (wax dip)	6 th	2	c1, c2, c3, d1,d2
7	Design drawing and Waxing up the different designs of RPD	7 th	2	c1, c2, c3, d1,d2
8	Spruing	8 th	2	c1, c2, c3, d1,d2
9	Investing Wax elimination (burn out) and casting in metal Finishing and polishing	9 th		c1, c2, c3, d1,d2
10	(Temporary Removable partial denture) Block out of undesirable undercut in the casts Working of clasps	10 th		c1, c2, c3, d1,d2







No.	Tasks/ Experiments	Week Due	Contact Hours	Learning Outcomes (CILOs)
11	Record base Bite rims Mounting	11 th	2	c1, c2, c3, d1,d2
12	Setting up of teeth Waxing up	12 th	2	c1, c2, c3, d1,d2
13	Flasking Wax elimination and packing Curing Finishing and polishing	13 th	2	c1, c2, c3, d1,d2
14	Final-Practical Exam	14 th	2	c1, c2, c3, 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





V	II. Assignments:			
No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
1	Practical work assignment	Week 1 to week 14	20	c1, c2, c3, d1,d2
	Total	-	20	

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Midterm Exam	7 th week	10	10 %	a1, a2, b1, b2
2	Quizzes	11 th week	5	5 %	a1, a2, b1, d2
3	Practical Exam	15 th week	15	15 %	c1, c2, c3, d1,d2
4	Assignment	Week 1 to week 14	20	20 %	c1, c2, c3, d1,d2
5	Final Exam	16 th week	50	50%	a1, a2, a3, a4, b1,b2, b3, b4
	Total		100	100%	

IX. Learning Resources:

1- Required Textbook(s):

- 1. Alan B. Carr, Glen P. McGivney, David T. Brown, 2005: McCracken's Removable Partial Prosthodontic, 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 II (Preclinical)

Course No. (.....)

I. Information about Facult	y Member Responsible for the C	Course				, and a	
Name of Faculty Member:	Abbas M. Al-kebsi	Office Hours			ırs		
Location& Telephone No.:	Sanaa +967773888121						
E-mail:	Abbas_alkebsi@yahoo.com	SA T	SU N	M ON	TU E	WE D	THU







1	Course Title:	Removable Prosthodontics II (Pre				
2	Course Code & Number:					
	Credit Hours:	Credi Theory Hours		Hours	Lab.	
3		Hours	Lecture	Exercise	Hours	
		3	2	60 10	2	
4	Study Level/ Semester at which this Course is offered:	3rd Level. / 2nd Semester.				
5	Pre –Requisite (if any):	Removable Prosthodontics I (Preclinical)				
6	Co -Requisite (if any):	None				
7	Program (s) in which the Course is Offered:	BDS				
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. Abbas Al-kebsi				

III. Course Description:

This course is designed to acquire the student with component of removable partial denture and sequence of technical procedure involved in fabrication different designs of removable partial dentures. This helps the students to submit a proper written work authorization to dental technician. The student should attend a one lecture followed by a laboratory session.





	IV. Course Intended Learning Outcomes (CILOs):
	Upon successful completion of the Course, student will be able to: A. Knowledge and Understanding:
a1	Identify the importance of history taking and examination as pillars for good diagnosis and treatment planning.
a1	Demonstrate the anatomical land marks of upper and lower arches and choice of materials used and their relation to partial dentures fabrication.
a3	Show the knowledge of the imaging techniques of relevance available to the prosthodontist.
a4	Demonstrate the choice of materials used in the production of different prosthesis, along with knowledge of laboratory procedures
	B. Intellectual Skills:
b1	Collect and integrate information from number of resources to gain a coherent understanding of theory and practice.
b2	Know and apply the different steps for partial denture construction for maxillary and mandibular edentulous arches on appropriate the casts.
b3	Assimilate information derived from the history, examination and special investigations to produce a diagnosis then accordingly formulate the treatment plan.
b4	Identify cases that can benefit from other dental specialties intervention.
	C. Professional and Practical Skills:
c1	Diagnose and analyze the practical problems of the complete denture
c2	Apply information available in complete denture construction according to international standard.
c3	Apply infection control and radiation protection according to international standard.
	D. Transferable Skills:
d1	Establish communication skills that allow the effective delivery of dental treatment and to identify patient expectations, desires and attitudes.
d2	Establish a team work treatment.







V. Course Contents:

A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
1	Introduction	Definitions, Objectives, Indications and contraindications for removable partial dentures	Week 1	2
2	Classification of RPDs	Rules of Applegate	Week 2	2
3	Steps of partial denture construction	The removable partial denture equation and Outline of Clinical and Laboratory Procedure for Construction of Partial Dentures	Week 3	2
4	Surveying	Definition, Objectives of surveying, Surveyor Parts, Principles of surveying, Path of insertion (Path of placement), Factors determining the path of insertion and removal and Selection of the path of insertion.	Week 4	2
5	Components of removable partial dentures	Maxillary Major Connector	Week 5	2
6	Components of removable partial dentures	Mandibular Major Connectors and minor connectors	Week 6	2
7	Midterm Exam	MCQs	Week 7	2
8	Components of removable partial dentures	Rest and rest seat	Week 8	2
	Components of removable partial dentures	Direct retainers [Definition, Means of retention, Types of direct retainers, Types of extra-coronal direct retainers (Suprabulge clasp)]	Week 9	2
	Components of removable partial	Direct retainers (Infrabulge clasp)	Week 10	2



No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
	dentures			
11	Components of removable partial dentures	Indirect retainers (Definition, Forces acting on the denture produce rotational movements, Factors influencing the effectiveness of indirect retainers and Types of indirect retainers)	Week 11	2
12	Components of removable partial dentures	 -Denture base (Definition, Functions of a denture base, Different types of Denture base and finish lines). - Artificial teeth (tooth materials and types) 	Week 12	2
13	Designs of RPD	Basic principles of design	Week 13	2
14	Laboratory procedures for casting of removable partial denture	Outline of clinical and laboratory procedure for construction of partial dentures (surveying the master cast, preparation of the master cast for duplication, types of blockout and wax pattern)	Week 14 and 15	4
15	Final Exam	MCQs	Week 16	2
	Number of We	eks /and Units Per Semester	16	32

No.	Tasks/ Experiments	Week Due	Contact Hours
	Pouring molds		
1	Classification of partially edentulous casts	1 st	2
	Construction of custom tray with spacer on diagnostic cast		
	-Surveying of study cast		
2	-Preparation of guide planes on different types of teeth and re- contouring of abutment teeth	2 nd	2





No.	Tasks/ Experiments	Week Due	Contact Hours
	Preparation of rest seats		
3	Surveying the master cast to draw the survey line on abutment teeth and to determine the path of placement of the partial denture	3 rd	2
4	Drawing the design of the partial denture and beading of the upper master cast	4 th	2
5	Preparation of the master cast for duplication (modified master cast), blockout (blocking undesirable teeth and tissue undercuts, shaped block out on B and L surfaces) and Relief	5 th	2
6	Duplication of the master cast into a refractory cast (investment cast) Drying the refractory cast then immersion in softened wax (wax dip)	6 th	2
7	Design drawing and Waxing up the different designs of RPD	7 th	2
8	Spruing	8 th	2
9	Investing Wax elimination (burn out) and casting in metal Finishing and polishing	9 th	2
10	(Temporary Removable partial denture) Block out of undesirable undercut in the casts Working of clasps	10 th	2
	Record base		
11	Bite rims	11 th	2
	Mounting		
12	Setting up of teeth Waxing up	12 th	2
13	Flasking	oth	2





No.	Tasks/ Experiments	Week Due	Contac Hours
	Wax elimination and packing		
	Curing		
	Finishing and polishing		
14	Final-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

VI	VIII. Assignments:							
No.	Assignments	Week Due	Mark					
1	Practical work assignment	Week 1 to week 14	20					

Total

20





No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment
1	Midterm Exam	7 th week	10	10 %
2	Quizzes	11 th week	5	5 %
3	Practical Exam	15 th week	15	15 %
4	Assignment	Week 1 to week 14	20	20 %
5	Final Exam	16 th week	50	50%
	Total	100	100%	

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3- Quintessence

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

XI.	Course Policies: (Based on the Uniform Students' Bylaw (2007)		
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