

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 IV (clinical)
Course No.



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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:	Removable Prosthodontics IV (clinical)			
2	Course Code & Number:	-----			
3	Credit Hours:	Credit Hours	Theory Hours		Lab. Hours
			Lecture	Exercise	
		2	1	3	--
4	Study Level/ Semester at which this Course is offered:	4 th Level. / 2 nd Semester.			
5	Pre –Requisite (if any):	Removable Prosthodontics III (clinical)			
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. Abbas Al-kebsi			

II. Course Description:

The students have a full understanding of the sequence of clinical procedures involved in treating completely and partially edentulous cases. The course includes a detail step by step clinical procedures and impression materials and techniques, problems and post insertion care.

Different philosophies and rationales concerning patient's examination, impression making, occlusion and jaw relation will be discussed. A special interest will be given to denture insertion, post-insertion follows up and maintenance. The students should treat partially edentulous patients in addition to the completely edentulous cases

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	Show the knowledge and understanding of the basic principles for the theory and practical related to partial dentures.		A1
a2	Demonstrate the anatomical land marks of upper and lower arches and choice of materials used and their relation to partial dentures fabrication.		A2
a3	Demonstrate sound knowledge on the laws and ethics governing dental practice.		A3
a4	Have knowledge in the applications of other dental disciplines that can assist in prosthodontic treatment.		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
b3	Identify cases that can benefit from other dental specialties intervention.		B3
C. Professional and Practical Skills:			
c1	Diagnose and analyze the practical		C1

	problems of the partial denture			
c2	Apply information available in partial denture construction according to international standard.		C2	
c3	Diagnose and appropriately refer patients requiring complex treatment procedures to a specialist		C3	
D. Transferable Skills:				
d1	Establish communication skills that allow the effective delivery of dental treatment and to identify patient expectations, desires and attitudes.		D1	
d2	Establish a team work treatment.		D2	

(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	Have knowledge of the importance of history-taking and examination as pillars for good diagnosis and treatment planning	Lectures Discussion Brainstorming	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	Lectures Discussion Brainstorming	Quizzes Midterm exam Final exam

	the clinical and laboratory setup.		
a3	Demonstrate sound knowledge on the laws and ethics governing dental practice.	Lectures Discussion Brainstorming	Quizzes Midterm exam Final exam
a4	Have knowledge in the applications of other dental disciplines that can assist in prosthodontic treatment.	Lectures Discussion Brainstorming	Quizzes Midterm exam Final exam

(B) Alignment of Course Intended Learning Outcomes (Intellectual Skills) to Teaching Strategies and Assessment Methods:

	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.	Lectures Training Discussion Debate	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
b.3	Identify cases that can benefit from other dental specialties intervention.	Lectures Training Discussion Debate	Quizzes Midterm exam Final exam Practical exam

(C) Alignment of Course Intended Learning Outcomes (Professional and Practical Skills) to Teaching Strategies and Assessment Methods:

Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies
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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.	Training Discussion	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 Intended Learning Outcomes (Transferable Skills) to Teaching Strategies and Assessment Methods:

	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



IV. Course Contents:					
A. Theoretical Aspect:					
No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	Introduction, objectives, indication and contraindication of RPD.		2	2	a1, a2, a3, b1, b2
2	Case History, Diagnosis and evaluation of diagnostic data of partial denture and preliminary impression to obtain diagnostic cast.	<ul style="list-style-type: none"> •Clinical examination (visual and digital examination) •Surveying the diagnostic casts. •Mounting diagnostic casts. •Analysis of occlusion. •Radiographic interpretation and Treatment planning. 	2	2	a1, a2, a3, b1, b2
3	Mouth and abutment preparations for RPD	<ul style="list-style-type: none"> - Oral surgical preparation. - Periodontal preparation - Operative and Endodontics treatment. - Restoration of the abutment. - Preparation of the abutment. <ul style="list-style-type: none"> ▪ Preparation of sound enamel. ▪ Using conservative restoration. ▪ Using crowns. ▪ Different types of rest seats. 	2	2	a1, a2, a3, b1, b2
4	Final impression (Impression material and procedures for removable partial	<ul style="list-style-type: none"> •Different materials and techniques. •Anatomical and functional impression techniques. 	1	1	a1, a2, a3, b1, b2

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
	denture)	<ul style="list-style-type: none"> •Support for distal extension denture base. •Selective pressure impression (altered cast technique). •Functional reline technique. 			
5	Midterm Exam	Written Exam and MCQs	1	1	a1, a2, a3, b1, b2
6	Biomechanical considerations for RPDs	Factors influencing the design, Differentiation between two main types of removable partial dentures.	1	1	a3, b2, b3
7	Principles of RPD design Class I & Class II		1	1	a3, a4, b1, b2, b3
8	Principles of RPD design class III and class IV		1	1	a2, a3, a4, b2, b3
9	Clinical procedures of framework fitting (metal try-in)	<ul style="list-style-type: none"> •Examination of frame work. •Fitting framework to teeth. •Correcting discrepancies. •Fitting framework to opposing occlusion 	1	1	a2, a3, a4, b2, b3
10	Occlusal relationship for removable partial denture and selection of teeth	<ul style="list-style-type: none"> •Desirable occlusally contact relationships for removable partial denture. •Methods for establishing occlusal relationship. •Methods for establishing jaw relation for different situation of opposing arch. 	1	1	a2, a3, a4, b2, b3



No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
11	Partial denture try-in and Initial placement, adjustment and servicing of RPD	<ul style="list-style-type: none"> •Adjustment to bearing surfaces of denture bases. •Occlusal interference from denture framework. •Adjustment of occlusion. •Instruction to the patient. 	1	1	a2, a3, a4, b2, b3
12	Review		1	1	a1, a2, a3, a4, b1, b2, b3
13	Final Exam	Written Exam and MCQs	1	1	a1, a2, a3, a4, b1, b2, b3
Number of Weeks /and Units Per Semester			16	16	

B. Case Studies and Practical Aspect:

No.	Tasks/ Experiments	Week Due	Contact Hours	Learning Outcomes (CILOs)	
1	One Case: A single Cr-Co partial Denture.	1 st – 14 th	42	b1, b2, b3, c1, c2, d1, d2	
2	One Case: A single Acrylic (temporary) partial Denture.	1 st – 14 th	42	b1, b2, b3, c1, c2, d1, d2	
3	Final Exam	15 th	3	b1, b2, b3, c1, c2, d1, d2	
Number of Weeks /and Units Per Semester			15	45	



V. Teaching Strategies of the Course:

- Lectures
- exercise
- 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	Clinical Requirements	1 st – 14 th	25	b1, b2, b3, c1, c2, d1, d2
Total			25	

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	Midterm Exam	8 th	10	10%	a1, a2, a3, b1, b2
2	Quizzes	11 th	10	10%	a1, a2, a3, a4, b1,

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
					b2, b3
3	Assignments	1 st – 14 th	25	25%	b1, b2, b3, c1, c2, d1, d2
4	Practical Exam	15 th	15	15%	b1, b2, b3, c1, c2, d1, d2
5	Final Exam	16 th	40	40%	a1, a2, a3, a4, b1, b2, b3
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.; DeFrest, 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 IV (clinical)

Course No. (.....)

I. Information about Faculty Member Responsible for the Course:							
Name of Faculty Member:	Abbas M. Al-kebsi	Office Hours					
Location & Telephone No.:	+967773888121						
E-mail:	Abbas_alkebsi@yahoo.com	SAT	SUN	MON	TUE	WED	THU



II. Course Identification and General Information:

1	Course Title:	Removable Prosthodontics IV (clinical)			
2	Course Code & Number:	-----			
3	Credit Hours:	Credit Hours	Theory Hours		Lab. Hours
			Lecture	Exercise	
		2	1	3	--
4	Study Level/ Semester at which this Course is offered:	4th Level. / 2nd Semester.			
5	Pre –Requisite (if any):	Removable Prosthodontics III (clinical)			
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			
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12	Prepared by:	Dr. Abbas Al-kebsi			

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The students have a full understanding of the sequence of clinical procedures involved in treating completely and partially edentulous cases. The course includes a detail step by step clinical procedures and impression materials and techniques, problems and post insertion care.

Different philosophies and rationales concerning patient's examination, impression making, occlusion and jaw relation will be discussed. A special interest will be given to denture insertion,

post-insertion follows up and maintenance. The students should treat partially edentulous patients in addition to the completely edentulous cases

IV. Course Intended Learning Outcomes (CILOs) :

Upon successful completion of the Course, student will be able to:

A. Knowledge and Understanding:	
a1	Show the knowledge and understanding of the basic principles for the theory and practical related to partial dentures.
a2	Demonstrate the anatomical land marks of upper and lower arches and choice of materials used and their relation to partial dentures fabrication.
a3	Demonstrate sound knowledge on the laws and ethics governing dental practice.
a4	Have knowledge in the applications of other dental disciplines that can assist in prosthodontic treatment.
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	Identify cases that can benefit from other dental specialties intervention.
C. Professional and Practical Skills:	
c1	Diagnose and analyze the practical problems of the partial denture
c2	Apply information available in partial denture construction according to international standard.
c3	Diagnose and appropriately refer patients requiring complex treatment procedures to a specialist
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.
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IV. Course Contents:				
A. Theoretical Aspect:				
No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
1	Introduction, objectives, indication and contraindication of RPD.		2	2
2	Case History, Diagnosis and evaluation of diagnostic data of partial denture and preliminary impression to obtain diagnostic cast.	<ul style="list-style-type: none"> •Clinical examination (visual and digital examination) •Surveying the diagnostic casts. •Mounting diagnostic casts. •Analysis of occlusion. •Radiographic interpretation and Treatment planning. 	2	2
3	Mouth and abutment preparations for RPD	<ul style="list-style-type: none"> - Oral surgical preparation. - Periodontal preparation - Operative and Endodontics treatment. - Restoration of the abutment. - Preparation of the abutment. <ul style="list-style-type: none"> ▪ Preparation of sound enamel. ▪ Using conservative restoration. ▪ Using crowns. ▪ Different types of rest seats. 	2	2
4	Final impression (Impression material	<ul style="list-style-type: none"> •Different materials and techniques. •Anatomical and functional impression 		1

IV. Course Contents:

A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
	and procedures for removable partial denture)	<p>techniques.</p> <ul style="list-style-type: none"> •Support for distal extension denture base. •Selective pressure impression (altered cast technique). •Functional reline technique. 		
5	Midterm Exam	Written Exam and MCQs	1	1
6	Biomechanical considerations for RPDs	Factors influencing the design, Differentiation between two main types of removable partial dentures.	1	1
7	Principles of RPD design Class I & Class II		1	1
8	Principles of RPD design class III and class IV		1	1
9	Clinical procedures of framework fitting (metal try-in)	<ul style="list-style-type: none"> •Examination of frame work. •Fitting framework to teeth. •Correcting discrepancies. •Fitting framework to opposing occlusion 	1	1
10	Occlusal relationship for removable partial denture and selection of teeth	<ul style="list-style-type: none"> •Desirable occlusally contact relationships for removable partial denture. •Methods for establishing occlusal relationship. •Methods for establishing jaw relation 	1	1

IV. Course Contents:

A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
		for different situation of opposing arch.		
11	Partial denture try-in and Initial placement, adjustment and servicing of RPD	<ul style="list-style-type: none"> •Adjustment to bearing surfaces of denture bases. •Occlusal interference from denture framework. •Adjustment of occlusion. •Instruction to the patient. 	1	1
12	Review		1	1
13	Final Exam	Written Exam and MCQs	1	1
Number of Weeks /and Units Per Semester			16	16

B. Case Studies and Practical Aspect:

No.	Tasks/ Experiments	Week Due	Contact Hours
1	One Case: A single Cr-Co partial Denture.	1 st – 14 th	42
2	One Case: A single Acrylic (temporary) partial Denture.	1 st – 14 th	42
3	Final Exam	15 th	3
Number of Weeks /and Units Per Semester		15	45

VI. Teaching Strategies of the Course:

- Lectures
- exercise
- Debate
- Training
- Discussion
- Brainstorming

VII. Assessment Methods of the Course:

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

VII. Assignments:

No.	Assignments	Week Due	Mark
1	Clinical Requirements	1 st – 14 th	25
Total			25

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

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment
1	Midterm Exam	8 th	10	10%
2	Quizzes	11 th	10	10%
3	Assignments	1 st – 14 th	25	25%
4	Practical Exam	15 th		15%

VIII. Schedule of Assessment Tasks for Students During the Semester:				
No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment
5	Final Exam	16 th	40	40%
Total			100	100%

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